

# INDEX TO VOLUME 68

- ABBATT, JOHN D., FARRAN, HELEN E. A., and GREENE, RAYMOND:** Acute myeloid leukemia after radioactive-iodine therapy (ab), April, 628
- ABDOMEN**  
See also under names of abdominal organs and structures, as Aorta; Kidneys; Liver; etc.  
—reconstruction of entire anterior abdominal wall in presence of postirradiation changes (ab), James E. Fridgen and Charles W. Tonnison, May, 792
- acute conditions**  
—acute intermittent porphyria with acute abdominal findings and palpable mass (ab), Wesley Furste and Perry R. Ayres, Feb., 302  
—intravenous cholecyst-cholangiography in emergency abdominal diagnosis (ab), Robert S. Sparkman and Paul R. Ellis, March, 450  
—unusual causes of free intraperitoneal air in acute conditions (ab), Robert D. Spensley et al, Jan., 131
- blood supply.** See Aneurysm, aortic; Aorta; Venae Cavae
- roentgenography.** See Pneumography; other subheads under Abdomen
- surgery.** See Biliary Tract; Peptic Ulcer; etc.
- tumors**  
—anterior displacement of descending duodenum as aid in diagnosis of retroperitoneal tumor: roentgenographic sign of possible significance in some cases of enlargement of right adrenal gland (ab), Emil J. Ganem et al, Jan., 132  
—roentgen examination of inferior vena cava in retroperitoneal expanding processes (ab), C. G. Helander and Å. Lindbom, Feb., 288  
—simple approach to roentgen diagnosis of tumors in infants and children (ab), Charles M. Nice, Jr. et al, March, 459
- wounds and injuries**  
—trauma to abdominal and retroperitoneal viscera as it concerns radiologist (ab), J. Cash King, April, 617
- ABELANET, RENÉ.** See DELARUE, JACQUES
- ABNORMALITIES.** See under organs and regions, as Heart, abnormalities
- ABRAMOV, A., SCHORR, S., and WOLMAN, M.:** Generalized xanthomatosis with calcified adrenals (ab), Jan., 142
- ABRAMS, HERBERT L.:** Radiologic aspects of operable heart disease. III. The hazards of retrograde thoracic aortography. A survey, June, 812
- ACETABULUM**  
See also Hip  
—mongolism (mongoloid deficiency) during early infancy—some newly recognized diagnostic changes in pelvic bones (ab), John Caffey and Steven Ross, March, 456  
—Otto pelvis; 2 cases associated with labor (ab), W. H. Muller, April, 614
- ACETRIZOATE.** See Pyelography
- ACHALASIA.** See Stomach, cardiospasm
- ACIDS**  
—biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (ab), John G. Coniglio et al, April, 635
- ACKER, EARLE D.** See SHARF, ANDREW G.
- ACKERMAN, LAUREN V.** See CUNNINGHAM, JAMES B.
- See SEAMAN, WILLIAM B.**
- ACKERMANN, WOLFGANG:** Vertebral trephine biopsy (ab), March, 455
- ACLASIS.** See Epiphyses
- ACTINIUM.** See Radioactivity, radioactinium
- ACTIS-DATO, A., ANGELINO, P. F., and BRUSCA, A.:** An angiopulmographic study of the lesser circulation in mitral stenosis (ab), May, 768
- ADAMS, GAIL D., and BALKWELL, WILLIAM R.:** Advances toward a stable sensitive iron dosimeter, Jan., 101
- ADAMS, JOHN D., and NOEL, R. D.:** Operative cholangiograms. A critical review of their value (ab), Jan., 135
- ADENOMA.** See Bronchi; Lungs, cancer; Parathyroid
- ADLER, E.** See SCHORR, S.
- ADLER, HOWARD.** See KAPLAN, GUSTAVE
- See POPPEL, MAXWELL H.**
- ADOLESCENCE**  
—arterioesenteric obstruction of duodenum in adult life and adolescence (ab), Erik de F. Licht, April, 608  
—tuberculous coin lesion—a roentgenological symptom (observations in children and adolescents) (ab), H.-D. Renovan, March, 438
- ADRENALS**  
—roentgenographic appearance of normal glands (ab), Richard H. Harrison, III, and Leonard C. Doubleday, June, 905
- calcification**  
—generalized xanthomatosis with calcified adrenals (ab), A. Abramov et al, Jan., 142
- cancer**  
—anterior displacement of descending duodenum as aid in diagnosis of retroperitoneal tumor: roentgenographic sign of possible significance in some cases of enlargement of right adrenal gland (ab), Emil J. Ganem et al, Jan., 132  
—large carcinoma; case, W. C. Strittmatter, C. H. Brown and H. A. Tretbar, Feb., 231
- tumors**  
—danger of aortography in localization of pheochromocytoma (ab), Nathan J. Saltz et al, May, 785
- ADRENOCORTICAL PREPARATIONS**  
—controlled study of cortisone therapy for headache after pneumoencephalography (ab), Orceneth A. Fly, Jr. et al, April, 600  
—cortisone versus x-ray in treatment of subacute thyroiditis; 4 cases (ab), Lawrence Taylor, April, 622  
—effect of radiophosphorus and cortisone on transplanted mammary adenocarcinomas in susceptible and resistant mice (ab), Norman E. Boucher, Jr. et al, May, 789  
—treatment of low-back and sciatic pain by injection of hydrocortisone into degenerated intervertebral disks (ab), Henry L. Feffer, April, 612
- ADRENOCORTICOTROPIC HORMONE**  
—corticotropin (ACTH) gel in treatment of irradiation enterocolitis; 2 cases (ab), George E. MacDonald and Lyman H. Hoyt, June, 917
- AGE**  
—incidence of spina bifida occulta in relation to age (ab), Wataru W. Sutow and Arthur W. Pryde, Jan., 139
- AHUMADA, JUAN C., NOGUÉS, ARMANDO E., and DONOVAN, CORNELIO:** Hysterothyroidism in the diagnosis of dead and retained human ovum (ab), April, 614
- ALBRICHT, C. PETER.** See BROWN, CHARLES H.
- ALBUMIN.** See Blood, proteins
- ALDRIDGE, NOEL H.:** Cholecystography and cholangiography: a review of present methods of examination (ab), April, 609  
Combined intravenous cholecystography and pyelography (ab), Jan., 143
- ALEXANDER, EBEN, Jr.** See FOWLER, FRED D.
- ALIMENTARY TRACT.** See Gastrointestinal Tract; Intestines; Stomach; etc.
- ALKAPTONURIA**  
—alkaptonuric arthritis (ab), A. J. Harrold, March, 452
- ALLAM, M. W., LOMBARD, L. S., STUBBS, E. L., and SHIRER, J. F.:** Transplantation of a canine thyroid carcinoma through thirty generations in mixed-breed puppies (ab), June, 918
- ALLEN, R. P.** See REIQUM, C. W.
- ALLERGY**  
—effect of intravenous Benadryl in allaying allergic manifestations of 70 per cent Urokon (ab), Jack Lapides and Robert E. Boyd, April, 617  
—reactions due to intravenous Urokon (ab), Vernon H. Youngblood et al, April, 617
- ALMEN, MARY CAROL.** See DRURY, DOUGLAS R.
- D'ALOITO, VICTORINO:** Radiology of the pharyngo-esophageal region; Plummer-Vinson syndrome (ab), Feb., 289
- ALUMINUM AND ALUMINUM COMPOUNDS**  
—differential diagnosis between aluminum lung and Boeck's sarcoid; correction of article by K. H. Ehrecke (ab), F. Leicher, March, 438
- AMATUZZO, D. S., HAGEN, P. S., and EVANS, R. L.:** Incorporation of <sup>14</sup>C-labeled glycine in the plasma protein, plasma phospholipids, blood non-protein nitrogen, and splenic tissue in man (ab), March, 472
- AMBERG, JOHN R., and RIGLER, LEO G.:** Results of surgery in carcinoma of the stomach discovered by periodic roentgen examination (ab), April, 607
- AMERICAN BOARD OF RADIOLOGY**  
—certification, Feb., 269  
—examination for certification in nuclear medicine, Jan., 108  
—examinations, June, 872
- AMERICAN COLLEGE OF RADIOLOGY**  
—annual meeting, Jan., 108; Feb., 269
- AMES, ROSE.** See CAFFEY, JOHN
- AMUNDSEN, A. K., AMUNDSEN, P., and MÜLLER, O.:** Blood pressure and heart rate during angiocardiology, abdominal aortography, and arteriography of the lower extremities (ab), April, 604
- AMUNDSEN, P., and HOLTER, I.:** Cardiovascular changes in dystrophica mesodermalis congenita Marfan (ab), March, 441  
—See AMUNDSEN, A. K.  
—and SØRENSEN, EDVIN: Angiocardiology in intrathoracic tumours with particular reference to the question of operability (ab), Jan., 126
- AMYES, EDWIN W., and ANDERSON, FRANK M.:** Fracture of the odontoid process. Report of sixty-three cases (ab), Feb., 279
- AMYLOIDOSIS**  
—primary amyloidosis; case of gastric involvement only (ab), Anthony D. Intriore and Charles H. Brown, March, 447
- ANDERSCH, H.** See SCHRÖDER, G.

- ANDERSON, EMORY H.** See **SHARF, ANDREW G.**
- ANDERSON, ERNEST C., SCHUCH, ROBERT M., PER-  
RINGS, JAMES D., and LANGHAM, WRIGHT H.:**  
The Los Alamos human counter (ab), March, 473
- ANDERSON, FRANK M.** See **AMYES, EDWIN W.**
- ANDERSON, HJALMAR, Jr.** See **CROSBY, WILLIAM H.**
- ANDERSON, WILLIAM.** See **SAMET, PHILIP**
- ANEMIA**
- aplastic**
- secondary to intravenous therapy with radiogold; case (ab), Harold M. Schoolman and Steven O. Schwartz, Jan., 132
- pernicious**
- studies in urinary excretion of vitamin B<sub>12</sub>Co<sup>60</sup> in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ab), William R. Best et al., March, 471
  - time pattern of vitamin B<sub>12</sub>Co<sup>60</sup> urinary excretion in man after oral administration and parenteral "flushing" (ab), William R. Best et al., March, 472
- sickle-cell**
- bone infarcts in sickle-cell anemia, Caroline W. Rowe and Mary E. Haggard, May, 861
  - roentgenographically demonstrable splenic deposits in sickle-cell anemia (ab), George Jacobson and Sidney D. Zucherman, June, 905
- ANESTHESIA**
- infectious spondylitis following damage to anterior longitudinal ligament (contribution to spondylitis following para-vertebral anesthesia) (ab), W. Postmann, May, 783
- ANEURYSM**
- aneurysmal bone cyst (ab), Miguel Cruz and Bradley L. Coley, May, 777
  - aneurysmal bone cyst: its roentgen diagnosis, Robert S. Sherman and Kenneth Y. Soong, Jan., 54
- aortic**
- angiocardiology in diagnosis of saccular aneurysm of abdominal aorta; case (ab), Israel Steinberg and Nathaniel Finby, June, 802
  - antemortem diagnosis of syphilitic aneurysm of aortic sinuses; 9 cases (ab), Charles W. Merten et al., Jan., 129
  - clinical manifestations of unperforated aortic sinus aneurysm (ab), Israel Steinberg and Nathaniel Finby, May, 770
  - significance of aortography for diagnosis of abdominal aneurysms (ab), G. Aurig and H. Radke, April, 605
- arteriovenous.** See **Fistula, arteriovenous**
- cerebral**
- cerebral angiographic studies following surgical treatment of intracranial aneurysms; angiographic evaluation of results (ab), Lester A. Mount and Juan M. Taveras, June, 882
  - surgical treatment of intracranial aneurysms; results in angiographically located lesions (ab), Wallace B. Hamby, Feb., 278
- mediastinal**
- bi-axial roentgenkymography: aid in differential diagnosis of solid mediastinal tumor and aneurysm (ab), Martin Schneider and Jorge Ceballos, Feb., 286
- mesenteric**
- radiology of aneurysms of root of superior mesenteric artery; 2 cases (ab), Gastone Peruzzi and Cesare Ruffato, March, 445
- ophthalmic**
- ophthalmic artery aneurysm, Ralph R. Goldin and Maurice L. Silver, May, 727
- renal**
- aneurysm of renal artery (ab), Richard S. Silvis et al., Jan., 142
- splenic**
- splenic artery aneurysms: 17 cases showing calcification on plain roentgenograms, Gordon J. Culver and Herbert S. Pirson, Feb., 217
- vena caval**
- congenital aneurysm of superior vena cava (ab), G. H. Lawrence and T. H. Burford, Feb., 287
- ANGELINO, P. F.** See **ACTIS-DATO, A.**
- ANGIOCARDIOGRAPHY.** See **Cardiovascular System; Heart; Mitral Valve; Thrombosis**
- ANGIOCARDIO-PNEUMOGRAPHY.** See **Blood Vessels**
- ANGIOGRAPHY.** See **Aneurysm; Blood Vessels; Brain, blood supply; Fistula, arteriovenous; Hydronephrosis**
- ANGIOMATOSIS.** See **Tumors, angioma**
- ANGIOPNEUMOGRAPHY.** See **Lungs, blood supply**
- ANGIOSARCOMA.** See **Sarcoma, angiosarcoma**
- ANKLE**
- osteochondritis dissecans; case simulating fracture of talus (ab), Bruce M. Cameron, May, 784
- ANTHONY, D. S., CAMPBELL, J. E., HAGEE, G. R., and ROBAJDEK, E. S.:** Analysis of mixtures of radioactive isotopes by  $\gamma$ -ray measurements. Application of the method to Ac<sup>227</sup>, Th<sup>232</sup>, and Ra<sup>226</sup> (ab), March, 473
- ANTIGENS.** See **Histoplasmin and Histoplasmosis**
- ANTITOXINS**
- correlation of early radiation changes in lymphatic tissues with antitoxin-producing ability (ab), William L. Williams et al., April, 636
- ANTON, JOSEPH I.** See **RABINOVITCH, JACOB**
- ANVIL FRACTURE.** See **Spine**
- AORTA**
- See also **Aneurysm**
  - congenital aortic stenosis: clinical aspects and surgical treatment (ab), Daniel F. Downing, June, 892
  - congenital intralobar sequestration with anomalous artery from aorta (ab), Vidar Jensen and Aage Wolff, March, 437
  - discussion on clinical and radiological aspects of diseases of major arteries (ab), H. H. G. Eastcott et al., June, 891
  - systolic expansion or aorto-diastolic displacement: a roentgenkymographic study of left atrial movements in mitral cardiopathy (ab), F. Dalith, Jan., 128
- aneurysm.** See **Aneurysm**
- calcification.** See **Aorta, syphilis**
- roentgenography**
- acute renal failure following translumbar aortography (ab), Owen C. Berg, May, 784
  - blood pressure and heart rate during angiocardiology, abdominal aortography, and arteriography of lower extremities (ab), A. K. Amundsen et al., April, 604
  - contrast medium injury to spinal cord produced by aortography; pathologic anatomy of experimental lesion (ab), G. Margolis et al., May, 770
  - danger of aortography in localization of pheochromocytoma (ab), Nathan J. Saltz et al., May, 785
  - importance of translumbar aortogram and peripheral arteriogram in management of vascular disease (ab), Andrew G. Sharf et al., May, 768
  - new radiologic methods in gynecology: aortography and pelvic arteriography (ab), L. Rossi and B. Maggipinto, Feb., 299
  - paraplegia secondary to abdominal aortography (ab), Joseph G. McCormack, April, 605
  - pre-operative diagnosis of sequestration of lung by aortography (ab), Leo J. Kenney and William R. Byler, Feb., 281
  - radiologic aspects of operable heart disease. III. Hazards of retrograde thoracic aortography: survey, Herbert L. Abrams, June, 812
  - review of complications of translumbar aortography (ab), John G. McAfee and James K. V. Willson, March, 443
  - serious complications associated with newer diagnostic methods in urology (retroperitoneal pneumography and aortography) (ab), William Baurys, March, 459
  - survey of complications of abdominal aortography, John G. McAfee, June, 825
  - transcarotid aortography (ab), Patrick Crawford et al., May, 768
- syphilis**
- calcification of aorta as aid to diagnosis of syphilis (ab), J. Sydney McCann and D. C. Porter, Feb., 288
  - outcome of uncomplicated syphilitic aortitis (ab), R. E. Irvine, Feb., 288
- AORTIC SINUS.** See **Aneurysm, aortic**
- AORTIC VALVE**
- rheumatoid spondylitis and aortic insufficiency (ab), Donald F. Schilder et al., May, 781
  - transventricular and aortic angiocardiology and physiologic studies in dogs with experimental mitral and aortic insufficiency (ab), Robert J. Wilder et al., May, 771
- AORTITIS.** See **Aorta, syphilis**
- APPARATUS.** See **Roentgen Rays, apparatus**
- APPENDIX**
- See also **Fistula, uretero-appendicular**
  - diverticula; case, Asa B. Friedmann, Jan., 86
  - significance of calcified appendiceal enterolith, Boyer M. Brady and David S. Carroll, May, 648
- AQUEOUD OF SYLVII**
- vertebral angiography in diagnosis of hydrocephalus and differentiation between stenosis of aqueduct and cerebellar tumor (ab), F. Olov Lofgren, May, 757
- AQUEOUS HUMOR.** See **Eyes**
- AXANGO, ORIOL, and MARMOLEJO, AUGUSTO:** Internal biliary fistula (ab), Feb., 294
- ARCE G., ENRIQUE.** See **CELIS, ALEJANDRO**
- ARCOMANO, JOSEPH.** See **SCHLUGER, JOSEPH**
- ARDMAN, G. M., and KEMP, F. H.:** Radiologic investigation of pharyngeal and laryngeal palsy (ab), May, 761
- ARENDT, JULIAN, and ZGODA, ADAM:** Heterotrophic excretion of intravenously injected contrast media, Feb., 238
- ARGENTAFFINOMA.** See **Tumors, argentaffinoma**
- ARIEL, IRVING M.:** Treatment of primary and metastatic cancer of the liver (ab), March, 464
- ARMILLIFER.** See **Porocephalosis**
- ARTERIES**
- See also **Aneurysm; Aorta; Arteriosclerosis; Cardiovascular System; Lungs, etc.**
  - congenital intralobar sequestration with anomalous artery from aorta (ab), Vidar Jensen and Aage Wolff, March, 437
- basilar**
- angiographic demonstration of primitive trigeminal artery (carotid-basilar anastomosis), Burton L. Wise, May, 731
- brachiocephalic**
- corner positioning for visualization of brachiocephalic vessels, Israel Steinberg and Bernard K. Ryan, Feb., 242
- carotid.** See also **Brain, blood supply; Thrombosis**
- angiographic demonstration of primitive trigeminal artery (carotid-basilar anastomosis), Burton L. Wise, May, 731
  - buckling of carotid artery demonstrated by angiocardiology (ab), Walter Lentino et al., March, 442
  - granuloma of neck following Thorotrast angiography (ab), Laurence F. Levy, March, 436

**ARTERIES, carotid—cont.**

- some factors influencing non-visualization of internal carotid artery by angiography (ab), Norman H. Horwitz and Rembrandt H. Dunsmore, Jan., 122
- cerebral.** See Brain, blood supply
- choroid**
  - anterior choroidal artery (ab), S. E. Sjögren, May, 761
- coronary.** See Coronary Vessels
- fatula.** See Fistula, arteriovenous
- innominate.** See Arteries, brachiocephalic
- mesenteric.** See also Aneurysm
  - arterioenteric obstruction of duodenum in adult life and adolescence (ab), Erik de F. Licht, April, 608
  - syndrome of mesenteric vascular compression of duodenum; 11 cases with operative correction (ab), Sidney A. Rosenberg and Arnold Sampson, June, 896
- occlusion.** See also Brain, blood supply; Thrombosis
  - arterial disease as cause of pain in buttock and thigh (ab), George Bonney, June, 893
- ophthalmic.** See Aneurysm
- pulmonary.** See also Fistula, arteriovenous; Lungs, blood supply
  - absence of left pulmonary artery in Fallot's tetralogy (ab), Richard W. Emanuel and J. Norman Pattinson, May, 769
  - combined tricuspid and pulmonary atresia with juxtaposition of auricles (ab), A. M. Stewart and A. Wynn-Williams, April, 605
  - congenital absence of left pulmonary artery (ab), Joseph Smart and J. N. Pattinson, Jan., 130
  - dilatation of pulmonary artery in pulmonary stenosis (studied by catheterization and angiocardiology) (ab), F. S. P. van Buchem, March, 442
  - radiographic estimation of pulmonary artery pressure in mitral valvular disease, George Jacobson, Leonard H. Schwartz and Marcy L. Sussman, Jan., 15
- renal.** See also Aneurysm, renal; Fistula
  - anatomy of intrarenal arteries in health and disease (ab), F. T. Graves, March, 457
  - congenital malformation of renal artery, cause of hypertension, Frank Isaac, Thomas H. Brem, Eugene Temkin and Herbert J. Movius, May, 679
- roentgenography.** See also other subheads under Arteries
  - discussion on clinical and radiological aspects of diseases of major arteries (ab), H. H. G. Eastcott et al, June, 891
  - fatality following abdominal arteriography (ab), H. R. Roby and J. W. McKay, Jan., 131
  - importance of translumbar aortogram and peripheral arteriogram in management of vascular disease (ab), Andrew G. Sharf et al, May, 768
  - new radiologic methods in gynecology; aortography and pelvic arteriography (ab), L. Rossi and B. Maggipinto, Feb., 299
  - vascular responses to intra-arterial Diodrast and Urokon during arteriography (ab), Robert S. Shaw, March, 443
- splenic.** See Aneurysm, splenic
- trigeminal.** See Arteries, basilar
- vertebral.** See also Hydrocephalus
  - another method of vertebral angiography (ab), E. Lindgren, June, 883
  - atrophy within brain stem area following injection of Thorotrast into vertebral artery; case (ab), Tormod Hauge, June, 883
- ARTERIOGRAPHY.** See Arteries
- ARTERIOSCLEROSIS**
  - evaluation of peripheral arteriosclerotic insufficiency utilizing radioactive iodinated human serum albumin (ab), Earl J. Halligan, et al, March, 468
- ARTHRITIS**
  - See also Arthritis, Rheumatoid; Spine
  - alkaptonuric arthritis (ab), A. J. Harrold, March, 452
  - roentgen manifestations of psoriatic arthritis, Thomas F. Meaney and Robert A. Hays, March, 403
- ARTHRITIS, RHEUMATOID**
  - rheumatoid spondylitis and aortic insufficiency (ab), Donald F. Schilder et al, May, 781
- ARTHROGRAPHY.** See Shoulder
- DE ARZUA ZULAICA, E.:** Cancer of the gastric stump (ab), Feb., 291
- Hepatic cirrhosis and gastro-duodenal ulcer (ab), Feb., 291
- ASCARIASIS**
  - roentgenological findings of small intestine in 100 repatriated prisoners of war. Deficiency states and worm infestations (ab), Walter Francke, May, 773
- ASCITES.** See Liver, cirrhosis
- ASHMORE, J. D., KANE, J. J., PETTIT, HAROLD S., and MAYO, HENRY W., Jr.:** Experimental evaluation of operative cholangiography in relation to calculus size (ab), May, 775
- ASPERGILLOSIS**
  - aspergilloma of lung (ab), W. Höfken, Feb., 285
- ASTHMA**
  - chronic pulmonary infiltration with eosinophilia in the asthmatic (5 personal observations, including one with histopathologic analysis) (ab), J. Turiaf et al, Feb., 283
- ATELECTASIS.** See Lungs, collapse
- ATIK, MOHAMMAD.** See WHITTLESEY, ROBERT H.
- ATLAS AND AXIS**
  - basilar impression (ab), A. Tänzer, March, 435
  - fracture of odontoid process; 63 cases (ab), Edwin W. Amyes and Frank M. Anderson, Feb., 279
  - role of atlantoid compression in etiology of internal carotid thrombosis (ab), Edwin Boldrey et al, Jan., 121
- ATMOSPHERE**
  - Rad, RaE, and Po in atmosphere (ab), P. King et al, April, 636
- ATOMIC BOMB AND ATOMIC ENERGY**
  - disaster monitoring with amateur photographic film and with dental x-ray film, Margaret Ehrlich, Feb., 251
  - impact of atomic energy industry on community health; panel discussion (ab), May, 793
  - radiological defense plans in California (ab), Stafford L. Warren and Justin J. Stein, Feb., 312
  - two ways to estimate thyroid dose from radioiodine in fallout (ab), Gordon M. Dunning, March, 468
- AUBRY, P.** See PHELINE, CH.
- AURIG, G., and RADKE, H.:** Significance of aortography for the diagnosis of abdominal aneurysms (ab), April, 605
- AUTORADIOGRAPHY.** See RADIOACTIVITY
- AVEDIAN, VICTOR.** See KOVACH, JOHN C.
- AXELRAD, B.** See SAMPSON, J. J.
- AYRES, PERRY R.** See FURST, WESLEY
- AZAMBUJA, N., LINDGREN, E., and SJÖGREN, S. E.:** Tentorial herniations (ab), May, 760

## B

- BABBITT, D. P.** See NESBITT, TOM E.
- BABER, JULIUS J.** See HALLIGAN, EARL J.
- BACKACHE**
  - comparative roentgen findings in symptomatic and asymptomatic backs, Tom M. Fullenlove and A. Justin Williams, April, 572
  - results of lumbosacral fusion for low back pain (ab), E. G. Shaw and J. G. Taylor, March, 455
  - treatment of low-back and sciatic pain by injection of hydrocortisone into degenerated intervertebral disks (ab), Henry L. Feffer, April, 612
- BACKLUND, VIDAR:** Technic of simultaneous telefilmangiography (ab), April, 618
- BACON, A. P. C.** See HICKIE, JOHN B.
- BACON, H. E., and McCREA, L.:** Significance of ureteral studies in surgery of the colon and rectum (ab), March, 458
- BACQ, Z. M.:** Roentgenoscopic examinations as a hazard to patients (ab), May, 792
- BACTEREMIA.** See Bacteria
- BACTERIA**
  - importance of intestinal flora in radiation treatment of gynecological carcinomata (ab), J. Bretnier and W. Roth, April, 621
  - incidence of endogenous bacteremia in x-irradiated rabbits (ab), Carolyn W. Hammond and C. Phillip Miller, Feb., 315
  - temperature dependence of bacterial inactivation by x-rays (ab), G. E. Stapleton and C. W. Edington, June, 918
- BADGES.** See Roentgen Rays, films
- BAENSCH, WILLY:** Rare bony and parosteal tumors in which radiotherapy is not indicated (ab), June, 909
- BAGGENSTOSS, ARCHIE H.** See BURGERMAN, ARTHUR
- BAIRD, I. McLEAN, and LEES, F.:** Renal osteodystrophy in adults (ab), May, 779
- BAKAY, LOUIS.** See HANELIN, JOSEPH
- BAKWIN, HARRY:** Multiple skeletal lesions in young children due to trauma (ab), May, 777
- BALANZARIO, ISAIAS.** See GARCIA CASTAÑEDA, MÁXIMO
- BALCHUM, OSCAR J.** See BLOUNT, S. GILBERT, Jr.
- BALDINI, GIOVANNI, and FERRI, LUIGI:** Tumor of bone of vascular origin. Anatomical-radiological considerations of primary hemangioma of the skull (ab), April, 611
- BALDWIN, WILLIAM F.:** Similarities in killing by heat and by x-radiation in the insect *Dahlbominus fuscipennis* (Zett.) (ab), May, 796
- BALESTRA, G., and DELPINO, B.:** "Spongy" kidney and nephrocalcinosis (ab), June, 903
- BALKWELL, WILLIAM R.** See ADAMS, GAIL D.
- BALZARINI, EMILIO, and POMPILI, GIUSEPPE:** Technic and normal radiographic anatomy of the sternum (ab), May, 780
- BANTUS.** See Negroes
- BARBERS.** See Industries and Occupations
- BARCLAY, T. H. CRAWFORD, and KENT, H. P.:** Primary carcinoma of the duodenum (ab), Jan., 131
- BARDEN, ROBERT P., and COMROE, JULIUS H., Jr.:** Roentgenologic evaluation of pulmonary function. A correlation with physiologic studies of ventilation (ab), Feb., 280
- BARILLA, M.** See IANNACCONO, G.
- BARIUM**
  - See also Intestines, roentgenography; Radioactivity, radium
  - timed-disintegration capsules; an in vivo roentgenographic study (ab), Theodore M. Feinblatt and Edgar A. Ferguson, Jr., March, 460
- BARNETT, ROY N.** See DAUZIER, GEORGES
- BARONOFKY, IVAN D.** See LEVY, LOUIS M.
- BARRERA, FRANK.** See OPPENHEIMER, M. J.
- BARTONE, NOEL F., and GRIECO, R. VINCENT:** Fractures of the triquetrum (ab), Feb., 297
- BAŠIĆ, MARKO, and WEBER, DANICA:** Damage to the intra-uterine fetus by roentgen rays (ab), Feb., 312
- BASILAR IMPRESSION.** See Atlas and Axis

- BASSER, ADRIAN G.:** Uptake of radioiodine by the thyroid cells using nuclear emulsion (ab), April, 627
- BATTEN, RICHARD, and BROWN, D. E. MEREDITH:** Protection of ovaries from radiation (ab), May, 791
- BAUER, FRANZ E., MUGLER, FREDERICK R., Jr., LIEBERMAN, VERNON W., and WESTERGART, JOHN P.:** Clearance of radioactive iodine from the lower extremities of patients with myocardial infarction (ab), May, 788
- See **TUBIS, MANUEL**
- BAUER, ROBERT E.** See **CROSBY, R. M. N.**
- BAUMAN, ARTHUR, and ROTHSCCHILD, MARCUS A.:** The rate of intravascular equilibration of intravenously administered  $^{125}\text{I}$ -labeled albumin in various body sites (ab), May, 789
- BAUMGARTNER, J.** See **WORINGER, E.**
- BAURYS, WILLIAM:** Serious complications associated with the newer diagnostic methods in urology (ab), March, 459
- BAUS, R. A.** See **KING, P.**
- BCG VACCINE**
- calcification of regional lymph nodes following BCG vaccination (ab), Samuel C. Stein and Martin J. Sokoloff, Jan., 124
- BEATTY, E. C., Jr.** See **REIQUAM, C. W.**
- BEATTY, OREN A.:** A study of tuberculosis cavities by contrast media and other methods (ab), March, 437
- BÉCAPTAN DISULFURE LABAZ.** See **Roentgen Rays**, injurious effects
- BECK, ROBERT E., KRONSEIN, JOHN, and HOBBS, ARTHUR A., Jr.:** Technical considerations in  $^{131}\text{I}$  tracer studies (ab), June, 911
- BECKER, JOSEF, and SCHEER, KURT, E.:** Clinical aspects of treatment of carcinomas of the gastrointestinal tract with isotopes (ab), June, 913
- BEDNARZ, WALLACE W.** See **SCHEFF, SAUL**
- BEIERWALTES, WILLIAM H., and JOHNSON, PHILIP C.:** Hyperthyroidism treated with radioiodine. A seven-year experience (ab), Feb., 310
- BELL, H. GLENN.** See **LOW-BEER, BERTRAM V. A.**
- BELL, P.** See **CEMBER, H.**
- BELL, ROBERT L., FRIEDMANN, ASA B., and OLSON, B. WESLEY:** Scintiscanning as a method for localization of cerebral tumors (ab), May, 758
- BELLION, B., TRIBUNO, C., and TORETTA, A.:** Utilization of a 31-MEV betatron for radiation therapy. I. History, principles, installation, protection (ab), June, 910
- BENADRYL**
- effect in allaying allergic manifestations of 70 per cent Urokin (ab), Jack Lapides and Robert E. Boyd, April, 617
- BENDER, F.:** Primary pulmonary carcinoma associated with active pulmonary tuberculosis (ab), June, 888
- BENJAMIN, B.** See **BRETT, G. Z.**
- BERG, H. M.** See **BERG, R. M.**
- BERG, HAROLD F.** See **CHRISTOPHERSON, WILLIAM M.**
- BERG, OWEN C.:** Acute renal failure following translumbar aortography (ab), May, 784
- BERG, R. M., and BERG, H. M.:** Coproliths, June, 839
- BERGELSON, VICTOR D.** See **ISARD, HAROLD J.**
- BERGER, S. M.** See **KREMENS, V.**
- BERK, J. EDWARD, MELLINS, HARRY Z., and BRODIE, MARVIN:** The use of iodipamide methylglucamine (Cholografin High Potency) as a contrast medium for intravenous cholangiography (ab), Jan., 136
- BERMAN, CARROLL Z.:** Roentgenographic manifestations of congenital megacolon (Hirschsprung's disease) in early infancy (ab), June, 896
- BERMAN, HARRY L.:** Immobilization of the head during rotational x-ray therapy, April, 579
- BERNHHEIM, FREDERICK, OTTOLENGHI, ATHOS, and WILBUR, KARL M.:** Studies on bone marrow lipid in normal and irradiated rabbits (ab), Feb., 314
- BERRY, N. E., and BURR, R. C.:** Intracavitary irradiation of carcinoma of the bladder (ab), May, 787
- BERSON, SOLOMON A.** See **YALOW, ROSALYN S.**
- BERTOLOTI, MARIO:** Inflammatory craniopathies. Various stages in the development of a theory (ab), Feb., 278
- BESSE, BYRON E., Jr.** See **RUBIN, PHILIP**
- BEST, WILLIAM R., LANDMANN, WENDELL A., and LIMARZI, LOUIS R.:** Time pattern of vitamin  $\text{B}_{12}\text{Co}^{60}$  urinary excretion in man after oral administration and parenteral "flushing" (ab), March, 472
- WHITE, WILFRID F., ROBBINS, KENNETH C., LANDMANN, WENDELL A., and STEELMAN, SANFORD L.:** Studies on urinary excretion of vitamin  $\text{B}_{12}\text{Co}^{60}$  in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ab), March, 471
- BETA RAYS.** See **Eyes; Radioactivity, radiostromium**
- BETATRON**
- effect of radiation on esophagus; clinical and histologic study of effects produced by betatron. William B. Seaman and Lauren V. Ackerman, April, 534
- measurement of ratio  $E_m/J_m$  for betatron radiation, L. D. Skarsgard, D. V. Cormack and H. E. Johns, Feb., 257
- studies of dose distributions in water for betatron x-rays up to 37 MEV (ab), B. Zende et al, June, 910
- utilization of 31-MEV betatron for radiation therapy. I. History, principles, installation, protection (ab), B. Bellion et al, June, 910
- BÉTOULIÈRES, P., CARABALONA, P., PÉLISSIER, M., and CANDON, J.:** Pneumostratigraphy in the investigation of the left lobe of the liver (ab), Feb., 293
- BETTI, ROBERTO.** See **GARDINI, GIOVANNI F.**
- BIANCHI, EMO:** Roentgenologic findings in uretero-appendicular fistula (ab), Jan., 141
- BICKEL, WILLIAM H.** See **SABANAS, ALVINA O.**
- BIGNALL, J. R.:** Bronchial carcinoma. Effect of radiotherapy on survival (ab), May, 786
- BILE**
- biliary tract studies. I. X-ray diffraction analysis of gallstones; correlation with occurrence of microspheroliths in bile (ab), Kerrison Juniper, Jr., and William E. Woolf, Jan., 134
- BILE DUCTS**
- See also **Biliary Tract**
- bile ducts of cholecystectomized patients with and without dyskinesia before and after morphine injection. Preliminary report (ab), Eric Gunnarson, Feb., 294
- calculi**
- experimental evaluation of operative cholangiography in relation to calculus size (ab), J. D. Ashmore et al, May, 775
- residual common duct calculi (ab), A. O. Singleton, Jr., and James L. Coleman, March, 449
- residual stone in biliary ducts (ab), Frank B. Thomson, May, 774
- cancer**
- hepatic duct carcinoma seventeen years after injection of thorium dioxide (ab), James C. Roberts, Jr., and Kenneth E. Carlson, May, 791
- BILES, E. WILEY.** See **SINGLETON, EDWARD B.**
- BILIARY TRACT**
- See also **Bile Ducts; Gallbladder; Liver**
- clinical significance of air and barium in biliary tract (ab), Earl J. Halligan and Julius J. Baber, June, 897
- cysts**
- radiographic demonstration of choledochal cyst by oral cholecystography, John E. Moseley, June, 849
- fistula.** See **Fistula**
- roentgenography.** See also **Gallbladder**
- advantages and disadvantages of morphine effect combined with Biligrafin examination (ab), A. Boris and P. Lörinc, Jan., 136
- cholangiographic diagnosis of pancreatitis (ab), Maurice D. Sachs and Philip F. Partington, June, 897
- cholangiography after cholecystectomy; visualization with Cholografin by vein (ab), Stanley B. Reich et al, March, 450
- cholecystography and cholangiography; review of present methods of examination (ab), Noel H. Aldridge, April, 609
- comparative study of newer contrast media (Teridax, Telepaque, and Cholografin) used in cholecystography and cholangiography (ab), Carl P. Wisoff and Benjamin Felson, May, 774
- evaluation of cystic duct stump in intravenous cholangiography (ab), L. Fried, May, 775
- evaluation of routine operative cholangiography (ab), Deward O. Ferris and Harry M. Weber, June, 897
- experiences with diagnostic angiocholangiography and "per-operative radiomanometry" in cholelithiasis (ab), A. Ritter and H. Helmig, March, 450
- interpretation of intravenous cholangiogram (ab), Robert E. Wise and Richard G. O'Brien, Jan., 135
- intravenous cholangiographic diagnosis of partial obstruction of common bile duct, Robert E. Wise, David O. Johnston and Ferdinand A. Salzman, April, 507
- intravenous cholangiography as aid in diagnosis of carcinoma of head of pancreas, George Levene and Saul Scheff, May, 714
- intravenous cholecyst-cholangiography in emergency abdominal diagnosis (ab), Robert S. Sparkman and Paul R. Ellis, March, 450
- operative cholangiograms; critical review of their value (ab), John D. Adams and R. D. Noel, Jan., 135
- operative cholangiography; survey of 83 cases in 232 cholecystectomies (ab), Royal A. Weir and Carlos Lizama, Feb., 294
- percutaneous transhepatic cholangiography (ab), Jorge Remolar et al, May, 775
- per-operative manometry and radiology in biliary tract disorders (ab), Pierre Mallet-Guy and J. Dudfield Rose, May, 775
- use of iodipamide methylglucamine (Cholografin High Potency) as contrast medium for intravenous cholangiography (ab), J. Edward Berk et al, Jan., 136
- surgery.** See **Biliary Tract, roentgenography**
- BILIGRAFIN.** See **Biliary Tract; Gallbladder**
- BIOPSIES.** See **Spine, cancer**
- BIRCHALL, I.** See **JONES, D. E. A.**
- BIRKNER, RUDOLPH, FREY, JULIUS, and UEBERSCHÄR, KARL-HEINZ:** Early changes of bone of adult guinea pigs after roentgen irradiation (ab), June, 917
- BIRZLE, H.:** Roentgen demonstration of the movements of the ciliated epithelium of the trachea: experiments on isolated tracheas of slaughtered animals (ab), March, 436
- BITTNER, JOHN J.** See **BOUCHER, NORMAN E., Jr.**
- BLADDER**
- cystitis and ureteritis emphysematosa, C. Soteropoulos, E. Kawashima and John H. Gilmore, June, 866
- dose decrease in bladder and rectum in gynecologic radium treatments (ab), August Verhagen, Jan., 146

**BLADDER—cont.**

- urethritis cystica and pyelitis cystica: review of cases and roentgenologic criteria, Bernard S. Laitman and Harold Chiat, March, 345

**cancer**

- aftercare following intraluminal cobalt therapy for carcinoma (ab), Robert E. Schick, Feb., 312
- experiences with radioactive chromic phosphate in urological tumors (ab), Vincent Moore et al, Feb., 311
- intracavitary irradiation of carcinoma (ab), N. E. Berry and R. C. Burr, May, 787
- reliability of roentgen signs of varying degrees of malignancy of tumors (ab), C. Franksson et al, Feb., 301
- study of 2,678 patients with initial carcinoma. I. Survival rates. II. Survival rates in relation to therapy (ab), F. K. Mostofi, Jan., 146
- therapy of carcinoma (ab), Ira H. Lockwood and Samuel B. Chapman, Jan., 146

**astula. See Fistula****roentgenography**

- cystourethrography: clinical experience with newer contrast media (ab), Joseph J. Kaufman and Murray Russell, March, 458
- simple instrument for urethrocytography and fistulography in adults and children (ab), Åke Gullmo, April, 616
- urethrocytographic classification of prostatism (ab), M. L. Brodny and S. A. Robins, March, 459
- urethrocytography in differential diagnosis of prostatic cancer (ab), K. J. Oravisto and S. Schaumann, April, 615
- tumors
- reliability of roentgen signs of varying degrees of malignancy (ab), C. Franksson et al, Feb., 301

**BLASTOMYCOSIS**

- of bone: 4 cases (ab), Peter L. Carnesale and Kenneth F. Stegman, June, 898
- roentgen aspects of intrathoracic blastomycosis (ab), Chapin Hawley and Benjamin Felson, Feb., 284

**BLIFFORD, I. H., Jr. See KING, P.**

- BLOEDORN, FERNANDO G.:** Application of the Paterson-Parker system in interstitial radium therapy (ab), Jan., 149

- BLOMFELD, G. W.:** Clinical evaluation of results in super-voltage x-ray therapy (ab), Feb., 306

**BLOOD**

See also Anemia; Erythrocytes; Hemopoietic System; Leukocytes

- plasma, tissue and urinary radioactivity after oral administration of  $^{57}\text{Co}$ -labeled vitamin  $\text{B}_{12}$  (ab), C. C. Booth and D. L. Mollin, May, 789
- recording of radioactivity in blood, liver, and prostate following interstitial administration of  $\text{Au}^{198}$  in carcinoma of prostate (ab), Wayne M. Rounds and Titus C. Evans, April, 629
- transfer of potassium between blood, cerebrospinal fluid and brain tissue (ab), Guilford G. Rudolph and Norman S. Olsen, May, 789
- albumin. See Blood, proteins
- calcium

- radiographic features of severe idiopathic hypercalcemia of infancy, Edward B. Singleton, May, 721
- roentgen findings in patients with high serum calcium, Marvin L. Daves, David M. Gould and Gunter Schultze, Jan., 48
- carbon dioxide

- in vivo visualization of intracardiac structures with gaseous carbon dioxide: cardiovascular-respiratory effects and associated changes in blood chemistry (ab), M. J. Oppenheimer et al, June, 893

**circulation.** See also Brain, blood supply; Lungs, blood supply; etc.

- angiocardiographic mixing defects as indicators of left to right shunts (ab), Melvin M. Figley et al, April, 603
- angiocardiographic observations of intracardiac flow in the normal and in mitral stenosis (ab), Louis A. Soloff et al, Jan., 128
- congenital peripheral arteriovenous communications: use of femoral artery to heart circulation time in diagnosis (ab), Thomas O. Murphy et al, June, 893
- isotope studies of blood flow and blood cells (studied by radiocardiography) (ab), Edith H. Quimby, April, 624

- rate of intravascular equilibration of intravenously administered  $^{125}\text{I}$ -labeled albumin in various body sites (ab), Arthur Bauman and Marcus A. Rothschild, May, 789
- simple angiographic method for study of greater circulation: "enlarged" angiocardipneumography (ab), P. Viallet et al, March, 443

**fat and lipids**

- incorporation of  $\text{N}^{15}$ -labeled glycine in plasma protein, plasma phospholipids, blood non-protein nitrogen, and splenic tissue in man (ab), D. S. Amatzio et al, March, 472

**iodine. See also Blood, proteins**

- determination of protein-bound radioiodine with an anion exchange resin (ab), Leslie Zieve et al, March, 469
- salivary and thyroidal radioiodide clearances of plasma in various states of thyroid function (ab), Karl Fellinger et al, Feb., 309

**lipoproteins**

- x-irradiation and lipoprotein metabolism in various species (ab), John E. Hewitt and Thomas L. Hayes, April, 636

**nitrogen**

- incorporation of  $\text{N}^{15}$ -labeled glycine in plasma protein, plasma phospholipids, blood non-protein nitrogen, and splenic tissue in man (ab), D. S. Amatzio et al, March, 472

**plasma. See also other subheads under Blood**

- effect of total-body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), Kee-Chang Huang and James H. Bondurant, April, 635
- plasma activity levels in radiiodine tests of thyroid function (ab), H. A. Hughes and R. M. Miller, Jan., 150
- studies on copper metabolism. XXI. Transfer of radio-copper between erythrocytes and plasma (ab), J. A. Bush et al, March, 472
- urinary excretion and plasma levels of free ninhydrin reactive compounds in x-irradiated rats (ab), R. E. Kay et al, May, 796

**proteins. See also Blood, lipoproteins**

- disulfide reduction and release of iodide 131 following irradiation of  $^{131}\text{I}$  labeled proteins, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100
- early disappearance of  $^{125}\text{I}$  serum albumin from circulation of edematous subjects and its implications in clinical determination of blood volume (ab), T. W. Moir et al, March, 469
- evaluation of peripheral arteriosclerotic insufficiency utilizing radioactive iodinated human serum albumin (ab), Earl J. Halligan et al, March, 468
- incorporation of  $\text{N}^{15}$ -labeled glycine in plasma protein, plasma phospholipids, blood non-protein nitrogen, and splenic tissue in man (ab), D. S. Amatzio et al, March, 472
- investigations of transfer rates of albumin tagged with  $^{131}\text{I}$  in ascites and edema. II. Studies in control subjects and patients with cirrhosis (ab), James A. Schoenberger et al, March, 469
- rate of intravascular equilibration of intravenously administered  $^{125}\text{I}$ -labeled albumin in various body sites (ab), Arthur Bauman and Marcus A. Rothschild, May, 789

**serum.** See Blood, calcium; Blood, proteins

**transfusion**

- determination of cell volume in massive transfusions using  $\text{Fe}^{59}$  and  $\text{Cr}^{51}$  (ab), E. L. Smith et al, May, 790
- effect of transfusions of blood showing extreme leukocytosis on survival of x-irradiated mice (ab), C. C. Congdon et al, April, 634

**volume**

- changes in cases of cerebral trauma as determined by radioactive isotopes (ab), Edmund A. Smolik et al, Jan., 152
- determinations with radioactive chromium ( $\text{Cr}^{51}$ ) labeled erythrocytes: feasibility of routine total red blood cell volume determinations in general hospital (ab), Leo M. Meyer, Feb., 311
- early disappearance of  $^{125}\text{I}$  serum albumin from circulation of edematous subjects and its implications in clinical determination of blood volume (ab), T. W. Moir et al, March, 469
- effect of total-body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), Kee-Chang Huang and James H. Bondurant, April, 635
- some applications of isotope dilution techniques (ab), Rosalyn S. Yalow and Solomon A. Berson, April, 624

**BLOOD PRESSURE**

- blood pressure and heart rate during angiocardigraphy, abdominal aortography, and arteriography of lower extremities (ab), A. K. Amundsen et al, April, 604

**high. See also Portal Vein**

- congenital malformation of renal artery, a cause of hypertension, Frank Isaac, Thomas H. Brem, Eugene Temkin and Herbert J. Movius, May, 679

**BLOOD VESSELS**

See also Aorta; Arteries; Cardiovascular System; Lungs; Veins; etc.

- early vasoconstriction induced in isolated rabbit's ear by x-radiation (ab), Phillips M. Brooks et al, April, 635

**roentgenography**

- granuloma of neck following Thorotrast angiography (ab), Laurence F. Levy, March, 436
- improved syringe for angiography (ab), B. Selverstone et al, March, 461
- simple angiographic method for study of greater circulation: "enlarged" angiocardipneumography (ab), P. Viallet et al, March, 443

**BLOUNT, S. GILBERT, Jr., BALCHUM, OSCAR J., and GEN-SINI, GOFFREDO:** The persistent ostium primum atrial septal defect (ab), Feb., 287

**BLUM, S. DANIEL. See MARSHAK, RICHARD H.**

**BLUTH, IRWIN:** A note on the roentgen features of bronchial adenoma of the peripheral type, Feb., 193

**BOAG, J. W. See ZENDLE, B.**

**BOCKUS, H. L. See MITCHELL, ROBERT E., Jr.**

**BODY-SECTION ROENTGENOGRAPHY**

- evaluation of different radiologic methods (Dionosil, mucosography, tomography) in diagnosis of carcinoma of lung (ab), Laura Fariñas et al, June, 889
- few cases of glandular-bronchial fistula (importance of body-section roentgenography) (ab), Armando Pinheiro and Fernando Outeiro, Jan., 127

**BODY-SECTION ROENTGENOGRAPHY—cont.**

- focal cartilizing necrotizing pneumonia and its differentiation (especially by stratigraphy) from carcinoma of bronchus (ab), E. Zdansky, May, 763
- headache from subluxations of cervical articulations (studied by tomography) (ab), Ákos Kovács, June, 887
- pantomography of deep layers; preliminary report (ab), Pekka Soila, March, 461
- pneumostriatography in investigation of left lobe of liver (ab), P. Bétoulières et al, Feb., 293
- prognosis and early diagnosis of non-union of femoral neck fractures by laminagraphy (ab), Norman Rosenberg et al, June, 902
- radiologic study of intrathoracic goiter with axial transverse stratigraphy (ab), A. Santagada and M. Piazzi, Jan., 127
- retrobulbar air injection with planigraphy (ab), G. Richard Keskey and William R. Letsch, June, 886
- segmental radiography of internal auditory canal in neuromas of eighth nerve (ab), H. Fischgold et al, May, 761
- suboccipital gas myelography (combined with tomography) in diagnosis of herniated disc in cervical segment (ab), H. H. Jacobsen, May, 783
- technic of simultaneous telefilmplanigraphy (ab), Vi-lar Backlund, April, 618
- tomographic studies on normal and injured knee (ab), Stig Fagerberg, Feb., 298
- use of different tube shifts in lung tomography, Hans Salinger and Hannah Friedman-Barou, Feb., 209

**BOECK'S SARCOID.** See Sarcoidosis

**BOESEN, IB. LIND, JOHN MERRILL-HANSEN, B. ROSEN-DAL, TH., STORM, OLE, and WEGELIUS, CARL:** Diagnosis of congenital heart disease in infants by catheterization and selective angiocardiology (ab), May, 768

**BOLDREY, EDWIN, MAASS, LYMAN, and MILLER, EARL:** Role of atlantoid compression in the etiology of internal carotid thrombosis (ab), Jan., 121

**BOND, V. P., CARTER, R. E., ROBERTSON, J. S., SEYMOUR, P. H., and HECHTER, H. H.:** Effects of total-body fast neutron irradiation in dogs (ab), Feb., 316

—See **CARTER, R. E.**

—See **SWIFT, MARGUERITE N.**

**BONDURANT, JAMES H.** See **HUANG, KEE-CHANG**

**BONES**

- See also Cranium; Spine; under names of bones
- autoradiographic study of organically bound carbon-14 in growing epiphyseal cartilage and bone (ab), Richard C. Greulich, April, 632
- early changes of bone of adult guinea-pigs after roentgen irradiation (ab), Rudolph Birkner et al, June, 917

**abnormalities**

- unusual osteochondroses presenting diagnostic difficulty (ab), Howard E. Le Bus, June, 898

**atrophy**

- renal osteodystrophy in adults (ab), I. McLean Baird and F. Lees, May, 779

**cancer**

- bone lesions secondary to cancer of uterus (ab), J. Roussel et al, March, 453
- localization of radioactive gallium ( $Ga^{67}$ ) in bone lesions (ab), H. C. Dudley et al, April, 631
- osseous metastasis of thyroid origin (ab), A. K. Datta Gupta, Feb., 296
- skeletal metastases in cancer of breast (ab), Charles J. Staley, April, 610

**cysts**

- aneurysmal cyst (ab), Miguel Cruz and Bradley L. Coley, May, 777
- aneurysmal cyst: its roentgen diagnosis, Robert S. Sherman and Kenneth Y. Soong, Jan., 54

**diseases.** See also Bones, pathology; Osteochondritis; Osteomyelitis

- fibrous dysplasia; analysis of 15 cases of surgically verified costal fibrous dysplasia (ab), James F. Zimmer et al, Feb., 295

- joint and bone disease due to mycotic infection (ab), Elam C. Toone, Jr., and John Kelly, Jan., 138

- localization of radioactive gallium ( $Ga^{67}$ ) in bone lesions (ab), H. C. Dudley et al, April, 631

- metaphyseal fibrous defects (ab), James B. Cunningham and Lauren V. Ackerman, May, 778

- progressive diaphyseal dysplasia (Engelmann's disease) (ab), H. B. Stewart and E. R. Cole, Feb., 295

**fractures.** See Fractures

**fragility**

- unusual cystic lesion of bone, limited to pelvis and lower extremities. Osteogenesis imperfecta cystica? Charles A. Bream and William H. Sprunt, III, Feb., 179

**growth**

- animal experiments on radiosensitivity of growing bone (ab), Pierre van Caneghem and Carl G. Schirren, May, 796

**infarction**

- bone infarcts in sickle-cell anemia, Caroline W. Rowe and Mary E. Haggard, May, 661
- roentgen manifestations of calisson disease (ab), Maxwell H. Poppel and William T. Robinson, May, 779

**marrow**

- comparative activity of isologous vs. homologous or heterologous mouse bone marrow in promoting regeneration of irradiated mouse thymus (ab), Barbara B. Hirsch et al, May, 795

- dangers and technic of osteomyelography and transosseous venography (ab), H. J. Süsse, June, 906

- multiple myeloma; case diagnosed without x-ray evidence of bone lesions (ab), Morris E. Freedland, March, 452
- studies on bone marrow lipid in normal and irradiated rabbits (ab), Frederick Bernheim et al, Feb., 314

- technic of making microangiograms of rabbit bone marrow (ab), Chiyeo Okawa and J. I. Trombka, June, 907

**mycosis.** See Blastomycosis**pathology**

- bone changes in Kaposi's sarcoma; analysis of 15 cases occurring in Bantu Africans (ab), A. G. M. Davies, May, 779

- bone changes in leprosy (ab), D. E. Paterson, March, 453

- bone changes in tropical ulcer (ab), J. Scott Brown and J. H. Middlemiss, Feb., 296

- bone (osteoporosis), joint and soft-tissue changes following paraplegia (ab), Thomas Lodge, May, 780

- hyperostosis generalisata (ab), Marie Fogel and Rose Fejér, Jan., 138

- infantile cortical hyperostosis (ab), Fred Brooksaler and J. E. Miller, April, 611

- radiographic features of severe idiopathic hypercalcemia of infancy, Edward B. Singleton, May, 721

- radiologic and pathologic bone changes associated with urticaria pigmentosa; case (ab), Ernest Stark et al, June, 899

- roentgen findings in patients with high serum calcium, Marvin L. Daves, David M. Gould and Gunter Schultze, Jan., 48

- roentgenographic study of skeletal lesions in sarcoidosis (ab), George N. Stein et al, March, 453

- unusual bilateral sacrococcygeal ossicles, Will am S. Cornwell and George H. Ramsey, Jan., 70

**roentgenography.** See other subheads under **Iones**

**tumors.** See also under names of bones

- angiosarcoma; review of literature and presentation of case (ab), John H. Carter et al, May, 778

- atypical reticulum-cell sarcoma of skeletal system (ab), G. Keiser and H. H. mann, June, 898

- grading of osteogenic sarcoma, and its bearing upon survival and prognosis (ab), C. H. G. Price, Feb., 302

- histological diagnosis of undifferentiated tumors (ab), T. F. Hewer, Feb., 302

- non-osteogenic fibroma of bone (fibrous metaphyseal defect) (ab), Roy H. Maudsley and Alfred G. Stansfeld, June, 898

- osteomyelitis and sarcoma (ab), F. De Witte, Jan., 139

- radiosensitive tumors—radiological aspects (ab), F. G. M. Ross, Feb., 302

- radiotherapy of xanthomatous giant-cell tumors (ab), Sven Hultberg and V. Belloch Zimmermann, June, 909

- rare bony and parosteal tumors in which radiotherapy is not indicated (ab), Willy Baensch, June, 909

- solitary eosinophilic granuloma (ab), T. Hunter, March, 452

- some radiosensitive tumors (ab), A. L. Eyre-Brook, Feb., 302

- some radiosensitive tumors (ab), Robert C. Tudway, Feb., 302

**wounds and injuries**

- multiple skeletal lesions in young children due to trauma (ab), Harry Bakwin, May, 777

**BONGIOVANNI, ALFRED M.** See **NAGLE, W. WILLIAM**

**BONNEY, GEORGE:** Arterial disease as a cause of pain in the buttock and thigh (ab), June, 893

**BONTE, FREDERICK J.** See **COLE, JACK W.**

**BOOK REVIEWS**

**Astley, Roy.** Radiology of the Alimentary Tract in Infancy, March, 429

**Atlas of Tumor Pathology.** Armed Forces Institute of Pathology, Jan., 111

**Betz, E. H.** Contribution à l'étude du syndrome endocrinien provoqué par l'irradiation totale de l'organisme, Jan. 111

**Bevilacqua, Renato.** Attuale orientamento nella radiodiagnostica delle malattie toraciche. (Possibilità e limiti della comune tecnica radiologica), Feb., 271

**Brombart, Marcel.** La radiologie clinique de l'oesophage, April, 588

**Candardjis, Georges.** Diagnostic différentiel radiologique des ulcérations gastriques, June, 875

**Castleman, Benjamin.** Tumors of the Thymus Gland, Jan., 111

**Cooley, Robert N., and Sloan, Robert D.** Radiology of the Heart and Great Vessels, April, 587

**de Lorimier, Alfred A., Moehring, Henry G., and Hannan, John R.** Clinical Roentgenology. Volume IV. The Digestive Tract, the Gall Bladder, Liver and Pancreas, the Excretory Tract and Special Studies Emphasizing Differential Considerations, March, 429

**Dulac, G. L.** Études sur la précision en radiodiagnostic. Techniques d'un nouveau craniographe. Notation angulaire de l'incidence, May, 746

**Enayuer, A., and Bataini, J.-P.** Les tumeurs de l'amygdale et de la région vélopalatine, Feb., 271

**Fossati, F., Gallone, P., Parmeggiani, L., Polvani, C., and Scolari, M., compilers.** Norme per le protezioni contro le radiazioni ionizzanti, Jan., 113

**Garbay, Jean, Garbay, Michel, and Vanderpooten, Claude.** Les éraçements thoraciques, May, 745

**Garcia-Caldéron, J., and Ledoux-Lebard, G.** Technic du radiodiagnostic, March, 430

**Greenstein, Jesse P., and Haddow, Alexander.** Advances in Cancer Research. Vol. IV, June, 874

**Gutmann, René A.** Le diagnostic du cancer d'estomac à la période utile, April, 588

## BOOK REVIEWS—cont.

- Hadley, Lee A. The Spine. *Anatomico-Radiographic Studies. Development and the Cervical Region*, Jan., 111
- Hertig, Arthur T., and Mansell, Hazel. Tumors of the Female Sex Organs. Part I. Hydatidiform Mole and Chorioncarcinoma, Jan., 111
- Hine, Gerald J., and Brownell, Gordon L. Radiation Dosimetry, Feb., 270
- Holt, John Floyd, Hodges, Fred Jenner, Jacox, Harold W., and Kligerman, Morton M., editors. The Year Book of Radiology (1956-57 Year Book Series), June, 874
- Hornykiewytach, Th. Intravenöse Cholangiographie. Grundlagen, Technik, Ergebnisse, Feb., 271
- Janker, R., Grosse-Brockhoff, F., Haubrich, R., Lotzkes, H., Schaepe, A., and Hallerbach, H. Die Röntgen-Untersuchung des Herzens und der grossen Gefässe. Vorträge des I. Bonner Röntgenologischen Wochenendkurses, June, 874
- Jarniou, A.-P. Diagnostics pneumologiques, May, 745
- Lacassagne, A., and Gricourof, G. Action des radiations ionisantes sur l'organisme, March, 430
- Landing, Benjamin H., and Farber, Sidney. Tumors of the Cardiovascular System, Jan., 111
- Meschan, Isadore. Roentgen Signs in Clinical Diagnosis, May, 744
- Oughterson, Ashley O., and Warren, Shields, editors. Medical Effects of the Atomic Bomb in Japan, May, 744
- Pendergrass, Eugene P., Schaeffer, J. Parsons, and Hodes, Philip J. The Head and Neck in Roentgen Diagnosis, June, 873
- Physiology and Pathology of the Kidney. A Symposium, April, 588
- Prevetti, Giorgio, and Marcato, Marco. Microangiografia ossea. Sviluppo e accrescimento dello scheletro umano. Cranio e colonna vertebrale, June, 875
- Proceedings of the International Conference on the Peaceful Uses of Atomic Energy. Held in Geneva, 8 August-20 August, 1955. Vol. 10: Radioactive Isotopes and Nuclear Radiations in Medicine. Vol. 11: Biological Effects of Radiation, March, 429
- Schmidt, Paul-Georg. Die Lungentuberkulose. Diagnose und Therapie, May, 745
- Schmorl, G., and Jungmanns, H. Clinique et radiologie de la colonne vertebrale normale et pathologique. Confrontation anatomo-pathologique, April, 589
- Schoen, Herbert. Medizinische Röntgentechnik. Lehrbuch für medizinisch-technische Assistentinnen, Ärzte und Studierende, in zwei Teilen. Medizinischer Teil: Skelettaufnahmen und Organuntersuchungen, May, 744
- Swoboda, W. Das Skelett des Kindes. Entwicklung, Bildungsfehler und Erkrankungen, April, 589
- Thoms, Herbert. Pelvimetry, Feb., 270
- Thurn, P. Häemodynamik des Herzens im Röntgenbild mit besonderer Berücksichtigung der Herzkatheterisierung und der Angiokardiographie. Fortschr. a. d. Geb. d. Röntgenstrahlen, Ergänzungsband 76, Jan., 112
- Toni, G., Brusori, G., Miceli, R., and Zaffagnini, E. Strati-terapia bifocale, Jan., 112
- Wilson, C. W. Radioium Therapy. Its Physical Aspects and Extensions with Radioactive Isotopes, April, 587
- Zimmerman, H. M., Netsky, Martin G., and Davidoff, Leo M. Atlas of Tumors of the Nervous System, June, 874
- BOOKS RECEIVED (not reviewed)**
- Albot, G., et al. Intestin grêle: Colon-rectum, May, 743
- Allsopp, C. B., editor. The Measurement of Body Radioactivity, May, 743
- André, Torsten. Studies on the Distribution of Tritium-Labeled Dihydrostreptomycin and Tetracycline in the Body. Acta radiol suppl. 142, May, 743
- Beckerley, James G., Kamen, Martin D., and Schill, Leonard I., editors. Annual Review of Nuclear Science. Volume 6, Feb., 270
- Beierwaltes, William H., Johnson, Philip C., and Solari, Arthur J. Clinical Use of Radioisotopes, March, 428
- Bensaude, R. Rectoscopic sigmoidoscopy, May, 743
- Brocher, J. E. W. Die Prognose der Wirbelsäulenleiden. Eine berufsprüfungsärztliche Betrachtung, June, 873
- Bugher, J. C., Coursaget, J., and Loutit, J. F., editors. Progress in Nuclear Energy. Ser. VI, Biological Sciences. Vol. I, Jan., 110
- Bugher, J. C., Coursaget, J., and Loutit, J. F., editors. Progress in Nuclear Energy. Ser. VII, Medical Sciences. Vol. I, Jan., 110
- Clark, K. C. Positioning in Radiography, April, 586
- Cocchi, Umberto. Retroperitoneum und Pneumomediastinum, June, 873
- Cronkite, E. P., Bond, V. P., and Dunham, C. L., editors. Some Effects of Ionizing Radiation on Human Beings. A Report on the Marshallese and Americans Accidentally Exposed to Radiation from Fallout and a Discussion of Radiation Injury in the Human Being, Feb., 269
- Ferguson, Albert B. Orthopedic Surgery in Infancy and Childhood, May, 742
- Fields, Theodore, and Seed, Lindon. Clinical Use of Radioisotopes. A Manual of Technique, May, 743
- Greitz, Torgny. A Radiological Study of the Brain Circulation by Rapid Serial Angiography of the Carotid Artery. Acta radiol. suppl. 140, May, 743
- Halasinsky, M., editor. Actions chimiques et biologiques des radiations. Deuxième série, April, 587
- Hertz, Helge, and Rosendal, Thomas. Roentgen Changes in the Cranium in 153 Intracranial Tumours in Children Aged 0-15 Years. Acta radiol. suppl. 141, May, 743
- Hewitt, Richard M. The Physician-Writer's Book. Tricks of the Trade of Medical Writing, March, 428
- Ioannou, Jean. Guide technique et topographique d'exploration bronchologique (Bronchoscopie et bronchographie), May, 743
- Isemein, L., and Fournier, A.-M. La polyarthrite chronique évolutive, April, 587
- Janker, R., Grosse-Brockhoff, F., Haubrich, R., Lotzkes, H., Schaepe, A., and Hallerbach, H. Die Röntgen-Untersuchung des Herzens und der grossen Gefässe, Jan., 111
- Kyker, Granvil C., and Anderson, Elizabeth B., editors. Rare Earths in Biochemical and Medical Research: A Conference Sponsored by Medical Division, Oak Ridge Institute of Nuclear Studies, October 1955, March, 428
- Léger, Lucien, and Bréhat, Jacques. Chirurgie du pancreas, May, 743
- Merck Manual of Diagnosis and Therapy, Jan., 110
- Müller, Maurice E. Die Hüftnahten Femurostetomien unter Berücksichtigung der Form, Funktion und Beanspruchung des Hüftgelenkes, June, 873
- Nadas, Alexander S. Pediatric Cardiology, March, 428
- National Research Council. The Biological Effects of Atomic Radiation. Summary Reports from a Study by the National Academy of Sciences, May, 743
- Proceedings of the Third National Cancer Conference. Detroit, Michigan, June 4-6, 1956, April, 586
- Puijlaert, Carl B. A. G. Radiological Diagnosis of Bronchiectasis, April, 587
- Radiation Safety and Major Activities in the Atomic Energy Programs, April, 586
- Rajewsky, B. Strahlendosis und Strahlenwirkung. Tafeln und Erläuterungen; Unterlagen für den Strahlenschutz, Jan., 110
- Schubert, Jack, and Lapp, Ralph E. Radiation: What It Is and How It Affects You, June, 873
- Smullen, Willard C. Basic Foundations of Isotope Techniques for Technicians, April, 586
- Spector, William S., editor. Handbook of Biological Data, March, 428
- Stenstrom, K. Wilhelm. Manual of Radiation Therapy, June, 873
- Storch, Charles B. Fundamentals of Clinical Fluoroscopy, with Essentials of Roentgen Interpretation, Feb., 269
- Sullivan, William H. Trilinear Chart of Nuclides, June, 873
- Tracy, John E. The Doctor as a Witness, May, 743
- Wachsmann, Felix, and Dimotiss, Alexander. Kurven und Tabellen für die Strahlentherapie, June, 873
- Werthenbacher, Lael Tucker. Death of a Man, April, 587
- BOOTH, C. C., and MOLLIN, D. L.: Plasma, tissue and urinary radioactivity after oral administration of <sup>14</sup>C-labelled vitamin B<sub>12</sub> (ab), May, 789
- BOREN, H. G., and MILLER, D. V.: Evaluation of 3,5-diiodo-4-pyridone N-acetic acid (Dionosil) as a bronchographic agent (ab), June, 888
- BORIS, A., and LÖRINC, P.: Advantages and disadvantages of the morphine effect combined with Biligradin examination (ab), Jan., 136
- BORRELLI, F. J., and MAGLIONE, A. A.: Importance of myelography in spinal pathology. Analytical study of 150 cases (ab), June, 900
- BOUCHER, NORMAN E., Jr., SYVERTON, JEROME T., and BITTNER, JOHN J.: Effect of radiophosphorus and cortisone on transplanted mammary adenocarcinomas in susceptible and resistant mice (ab), May, 789
- BOUCHILLON, C. D. See ETTMAN, IRVING K.
- BOUDREAU, ROBERT P. See DENNIS, JOHN M.
- BOURNE, N. W. See NESBITT, TOM E.
- BOVINGTON, MARY. See THOMAS, CHARLES I.
- BOWERS, WARNER F. See NELSON, THOMAS G.
- BOWSER, EVERETT N. See FIELDS, THEODORE
- BOYD, ROBERT E. See LAPIDES, JACK
- BRADY, BOYER M., and CARROLL, DAVID S.: The significance of the calcified appendical enterolith, May, 648
- See MITCHUM, WILLIAM R.
- BRAIN**
- See also Cerebellum; Meninges; Pituitary Body; Sella Turcica; etc.
- automatic brain scanner for use with gamma-ray-emitting isotopes, W. B. Reid and H. E. Johns, Feb., 259
- normal variations in position of optic recess of third ventricle (ab), James Bull, May, 753
- prompt effects of whole-body irradiation at high dose rate on electroencephalogram of monkeys (ab), Phillips M. Brooks, March, 475
- time-intensity factors in radiation response. I. Acute effects of megavolt electrons (cathode rays) and high- and low-energy x-rays with special reference to brain (ab), Samuel P. Hicks et al., Jan., 154
- transfer of potassium between blood, cerebrospinal fluid and brain tissue (ab), Guilford G. Rudolph and Norman S. Olsen, May, 789
- atrophy**
- atrophy within brain stem area following injection of Thorotrast into vertebral artery; case (ab), Tormod Hauge, June, 883
- blood supply.** See also Arteries, cerebral; Brain, hematoma; Brain, tumors; Thrombosis

**BRAIN, blood supply—cont.**

- angiographic findings in cerebral vascular disease and their relationship to clinical syndromes (ab), R. Frowine, May, 756
- another method of vertebral angiography (ab), E. Lindgren, June, 883
- arteriovenous aneurysm of posterior fossa in an infant; case (ab), E. C. Schultz and William A. Huston, Jan., 121
- cerebral angiographic studies following surgical treatment of intracranial aneurysms; angiographic evaluation of results (ab), Lester A. Mount and Juan M. Taveras, June, 882
- cerebral angiography in encephalotrigeminal angiomatosis, Charles M. Poser and Juan M. Taveras, March, 327
- cerebral angiography in neurosurgical service (ab), Stevens Dimant et al., May, 754
- cerebral cineangiography with image intensifier (ab), H. Verbiest and J. Feddema, June, 907
- cerebral serial angiography (by means of fluorography) on 70 mm. film size (ab), Heinz Vieten, June, 882
- changes in superficial veins in cases of intracranial expanding processes (ab), V. Gvozdanović, May, 757
- contributions to cerebral angiography (ab), H. Neuen-schwander and H. R. Renfer, May, 758
- indications for and technic of cerebral angiography (ab), Curwood R. Hunter, Jan., 122
- new method of total simultaneous cerebral angiography by rapid intravenous injection (ab), P. Viallet et al., May, 755
- rapid serial angiography (using Triurol) (ab), Torgny Greitz, June, 882
- serial angiographic study of circulatory dynamics of brain (ab), E. Woringer et al., May, 756
- some factors influencing non-visualization of internal carotid artery by angiography (ab), Norman H. Horwitz and Rembrandt H. Dunsmore, Jan., 122
- spontaneous occlusion of middle cerebral artery (ab), Emanuel H. Feiring and Bernard J. Sussman, June, 884
- surgical treatment of arteriovenous malformations of brain (ab), Robert A. Hayne et al., March, 435
- transtentorial herniation of brain as revealed by displacement of arteries (ab), Antony Jefferson and Philip Sheldon, May, 760
- utilization of total simultaneous cerebral angiography by intravenous route in child (ab), Ch. Pheline et al., May, 755
- vertebral angiography in diagnosis of hydrocephalus and differentiation between stenosis of aqueduct and cerebellar tumor (ab), F. Olov Lofgren, May, 757
- cysticercosis**
  - generalized cysticercosis with cerebral infestation (ab), Trevor Owen and Michael Lenczner, June, 884
- cysts**
  - paraphysal cyst of third ventricle (ab), Harry W. Slade and Norman M. Glazer, Jan., 122
- diseases**
  - encephalomalacia simulating the clinical and radiological aspects of brain tumor; 6 cases (ab), Giuseppe Scarcella, May, 759
- hematomas**
  - angiographic differentiation between acute and chronic subdural and extradural hematomas (ab), Olof Norman, May, 756
  - traumatic intracerebral hematoma; review of 16 surgically treated cases (ab), Robert L. McLaurin and Bert H. McBride, March, 435
- herniation**
  - tentorial herniations (ab), N. Azambuja et al., May, 760
  - transtentorial herniation of brain as revealed by displacement of arteries (ab), Antony Jefferson and Philip Sheldon, May, 760
- roentgenography.** See Meninges; Neuralgia; other subheads under Brain
  - contribution to methods of filling posterior fossa and adjoining cervical subarachnoid space with small quantities of air (ab), H. Verbiest, June, 883
  - controlled study of cortisone therapy for headache after pneumoencephalography (ab), Orceneth A. Fly, Jr., et al., April, 600
  - positive contrast ventriculography—critical evaluation (ab), Norman H. Horwitz, May, 754
  - presence of foam in cerebrospinal fluid in encephalography (ab), F. Petrović, Jan., 122
  - retrobulbar air injection with planigraphy (ab), G. Richard Keskey and William R. Letsch, June, 886
  - two years experiences with a cisterno-encephalographic technic (ab), M. Lenzi and G. C. Canossi, May, 759
- tumors.** See also Brain, herniation; Meninges, tumors
  - angiography and pneumography in diagnosis of slightly space-occupying supratentorial tumors (ab), I. Wickbom, May, 758
  - concerning roentgen diagnosis of intracranial dermoids (so-called cholesteatoma) (ab), H.-E. Schulze, Feb., 278
  - diagnostic value of encephalographic examination of subarachnoid space (in brain tumor suspects) (ab), Giovanni Ruggiero, May, 753
  - diagnostic value of functional serial angiography in intracranial lesions (ab), W. Schiefer, May, 755
  - effect of single doses of roentgen radiation on experimentally induced gliomas: with critical review of effects of roentgen radiation on gliomas in man (ab), Martin G. Netsky et al., June, 917

- encephalography of sellar and parasellar tumors, with particular reference to anteroposterior projection and olfactory sulci (ab), Joseph Hanelin and Louis Bakay, May, 754
- encephalomalacia simulating clinical and radiological aspects of brain tumor; 6 cases (ab), Giuseppe Scarcella, May, 759
- phlebography in tumors of hemispheres and central gray matter (ab), E. Laine et al., May, 757
- pneumoma with metastases in central nervous system: rationale of treatment (ab), Fred D. Fowler et al., March, 462
- repeated angiographic examinations during roentgen therapy (ab), A. Breit and J. Peiffer, May, 757
- results of radiotherapy, 1945–1954 (ab), Hellmut Schwenkenbecher, May, 785
- roentgenographic signs of tumors of brain (ab), Eva L. Gilbertson and C. Allen Good, June, 884
- scintiscanning as method for localization of tumors (especially gliomas) (ab), Robert L. Bell et al., May, 758
- vertebral angiography in supratentorial expansive processes (ab), F. Columella and I. Papo, May, 758
- wounds and injuries.** See also Brain, hematoma
  - blood volume changes in cases of cerebral trauma as determined by radioactive isotopes (ab), Edmund A. Smolik et al., Jan., 132
- BRAUN, J. P.** See WORINGER, E.
- BREAM, CHARLES A., and SPRUNT, WILLIAM H., III:** An unusual cystic lesion of bone, limited to the pelvis and lower extremities. Osteogenesis imperfecta cystica?, Feb., 179
- BREAST**
  - study of lymphatics of mammary gland with radioactive gold (Au<sup>198</sup>) (ab), Felix E. Leborgne et al., March, 470
- cancer.** See also Tumors, experimental
  - can mass x-ray surveys be used in detection of early cancer of breast? (ab), J. Gershon-Cohen et al., May, 771
  - periodic roentgenographic studies of a growing human mammary cancer (ab), Helen Ingleby and Lolita Moore, June, 884
  - radioactive gold in malignant effusion (ab), Owen Millar and J. C. F. MacDonald, March, 470
  - surgical and radiation treatment of carcinoma; new concept (use of radiophosphorus) (ab), Bertram V. A. Low-Beer and H. Glenn Bell, April, 619
- BREIT, A., and PEIFFER, J.:** Repeated angiographic examinations during roentgen therapy of brain tumors (ab), May, 757
- BREITNER, J., and ROTH, W.:** Importance of the intestinal flora in the radiation treatment of gynecological carcinomata (ab), April, 621
- BREM, THOMAS H.** See ISAAC, FRANK
- BRETT, G. Z., BENJAMIN, B., CRAIG, J. WALLACE, and FREEMAN, V.:** Static mass radiography in a London borough (ab), Jan., 125
- BRISTOL, LEONARD J.:** Radiological diagnosis of obstructive emphysema (ab), May, 763
- BRISTOW, J. D., and GAULDEN, E. C.:** Three cases of circumscribed pulmonary opacities simulating tumor (ab), May, 765
- BRODIE, MARVIN.** See BERK, J. EDWARD
- BRODNY, M. L., and ROBINS, S. A.:** Urethrocytographic classification of prostatism (ab), March, 459
- BROFMAN, BERNARD L.:** Intracardiac angiography: controlled instantaneous intra-atrial release of contrast material in man (ab), May, 767
- BROMBART:** Definition, distribution, and roentgenologic aspects of esophageal diverticula (ab), Feb., 289
- BRONCHI**
  - See also Bronchiectasis; Fistula
  - dose to trachea and bronchi from decay products of radon and thoron (ab), A. C. Chamberlain and E. D. Dyson, April, 633
- calcification**
  - broncholithiasis; review of 27 cases (ab), Laurence K. Groves and Donald B. Effler, Jan., 128
- cancer.** See also Lungs, cancer
  - bronchogenic carcinoma and pulmonary tuberculosis; problems in diagnosis with special reference to antituberculous chemotherapy (ab), Herman Weissmann, June, 898
  - carcinoma; effect of radiotherapy on survival (ab), J. R. Bignall, May, 786
  - focal carnivoring necrotizing pneumonia and its differentiation from carcinoma of bronchus (ab), E. Zdansky, May, 763
  - grid therapy of carcinoma (ab), Ernst Kahr, May, 786
  - influence of histologic type on survival following radiotherapy of bronchogenic carcinoma (ab), Eugene R. Kutz, June, 908
- diseases**
  - chronic bronchitis, emphysema, and bronchial spasm in bituminous coal workers; epidemiological study (ab), John Pemberton, May, 763
- obstruction**
  - large pneumothorax and associated massive collapse of homolateral lung due to intrabronchial obstruction; case Sidney W. Nelson, March, 411
- roentgenography.** See also other subheads under Bronchi
  - bronchography with new contrast media (iodized oil thickened with sulfanilamide and Dionosil Oily); review (ab), Sheldon E. Domm et al., June, 887

**BRONCHI, roentgenography—cont.**

- correlated bronchographic and histopathologic study of bronchial disease in 216 tuberculous patients (ab), Raymond F. Corpe and Eugene C. Hwa, March, 437
- evaluation of 3,5-diiodo-4-pyridone N-acetic acid (Dionosil) as bronchographic agent (ab), H. G. Boren and D. V. Miller, June, 888
- roentgenologic method for demonstration of bronchopulmonary segments in fully expanded cadaver lungs in situ (ab), Kuo-York Chynn and L. R. Sante, Feb., 280
- selective angiopneumography and correlative study of bronchography and histopathologic findings in tuberculous fibrothorax (ab), Raúl Cicero et al., Jan., 124
- use of Visciodol, in bronchography, Samuel Cohen, Harry J. Perlberg, and C. R. Larde-Arthes, Feb., 197
- tumors**
  - note on roentgen features of bronchial adenoma of peripheral type, Irwin Bluth, Feb., 193
  - primary sarcoma of bronchus and lung (ab), Lew A. Hochberg and Philip Crastnopol, June, 889
- BRONCHIECTASIS**
  - experimental production in dogs (ab), Jacques Delarue and René Ablalet, April, 602
  - fate of children with bronchiectasis (ab), Christopher Strang, April, 602
  - Kartagener's syndrome; case (ab), E. Finkler, March, 460
  - Kartagener's syndrome in newborn infant (ab), Samuel J. Nichamin, May, 766
  - Kartagener's triad (cysto inversus, bronchiectasis, and sinusitis); case (ab), David L. Deutsch, June, 891
  - reversal of advanced bronchiectasis, John R. Pontius and Lewis G. Jacobs, Feb., 204
  - role of sinusitis in bronchiectasis (ab), R. M. Versteegh and J. Swierenga, June, 891
- BRONCHOGRAPHY.** See Bronchi
- BRONCHOLITHIASIS.** See Bronchi, calcification
- BROOKES, V. S.** See THORN, P. A.
- BROOKS, PHILLIPS M.**: Prompt effects of whole-body irradiation at a high dose rate on the electroencephalogram of monkeys (ab), March, 475
- GERSTNER, HERBERT B.**, and **SMITH, SIDNEY A.**: Early vasoconstriction induced in the isolated rabbit's ear by x-radiation (ab), April, 635
- BROOKS, FRED, and MILLER, J. E.**: Infantile cortical hyperostosis (ab), April, 611
- BROTHERS, MILTON.** See SIEGEL, ELSIE P.
- BROWN, CHARLES H.**, and **ALBRIGHT, C. PETER**: Achalasia of the cardia and mega-esophagus. Report of five representative cases (ab), May, 772
- See **INTRIERE, ANTHONY D.**
- MOBERG, CARL H.**, and **EFFLER, DONALD B.**: Compound diaphragmatic hernia: report of five cases (ab), Jan., 137
- See **STRITTMATTER, W. C.**
- BROWN, D. E. MEREDITH.** See **BATTEN, RICHARD**
- BROWN, DAVID B.**, and **THORSON, THEODORE A.**: Recticulum-cell sarcoma of rats. Apparent inhibition by x-irradiation (ab), Feb., 313
- BROWN, J. SCOTT, and MIDDLEMISS, J. H.**: Bone changes in tropical ulcer (ab), Feb., 296
- BROWN, JAMES W., HEATH, DONALD, and WHITAKER, WILLIAM.**: Eberstein's disease (ab), Jan., 129
- BROWN, MARY B.** See **CARNES, WILLIAM H.**
- See **HIRSCH, BARBARA B.**
- See **KAPLAN, HENRY S.**
- BROWNING, CARROLL W.**: An evaluation of beta irradiation therapy in ophthalmology (ab), April, 622
- BRUCE, W. R.**, and **JOHNS, H. E.**: Monte Carlo calculations on the spectrum of scattered radiation produced in water by x-ray beams of interest in radiotherapy, Jan., 100
- BRUCELOSIS.** See Undulant Fever
- BRUES, AUSTIN M.**: Radiation as a carcinogenic agent (ab), Feb., 313
- See **ACTIS-DATO, A.**
- BRUN, SVEN, and ENGESET, ARNFINN.**: Lymphadenography. A new method for the visualization of enlarged lymph nodes and lymphatic vessels. (Preliminary report) (ab), March, 461
- BRUWER, ANDRÉ J.**: Posteroanterior chest roentgenogram in two types of anomalous pulmonary venous connection (ab), May, 770
- KENNEDY, ROGER, L. J.**, and **EDWARDS, JESSE E.**: Recurrent pulmonary hemorrhage with hemosiderosis: so-called idiopathic pulmonary hemosiderosis (ab), May, 766
- KIERLAND, ROBERT R.**, and **SCHMIDT, HERBERT W.**: Pulmonary tuberculous sclerosis. Report of a case (ab), Feb., 283
- BUDIN, EARL, and GERSHON-COHEN, J.**: Danger of cancer from Thorotrast as a diagnostic medium (ab), April, 632
- BULKLEY, GEORGE J., COOPER, JOHN A. D., and O'CONNOR, VINCENT, J.**: Present status of treatment of carcinoma of prostate with radioactive materials (ab), March, 470
- BULL, JAMES.**: The normal variations in the position of the optic recess of the third ventricle (ab), May, 753
- DEL BUONO, M.** See **WELLAUER, J.**
- BURFIELD, G. A.** See **CAVE, P.**
- BURFORD, T. H.** See **LAWRENCE, G. H.**

**BURGERMAN, ARTHUR, BAGGENSTOSS, ARCHIE H., and CAIN, JAMES C.**: Primary malignant neoplasms of the duodenum, excluding the papilla of Vater. A clinicopathologic study of 31 cases (ab), Jan., 132

**BURR, R. C.** See **BERRY, N. E.**

**BUSH, J. A., MAHONEY, J. P., GUBLER, C. J., CARTWRIGHT, G. E., and WINTROBE, M. M.**: Studies on copper, metabolism. XXI. The transfer of radio-copper between erythrocytes and plasma (ab), March, 472

**BUSHUEFF, BORIS.** See **JORESS, MARK H.**

## C

**CADAVERS**

—roentgenologic method for demonstration of bronchopulmonary segments in fully expanded cadaver lungs in situ (ab), Kuo-York Chynn and L. R. Sante, Feb., 280

**CAFFEY, JOHN**, honored, Jan., 109

**CAFFEY, JOHN, AMES, ROSE, SILVERMAN, WILLIAM A., RYDER, CHARLES T., and HOUGH, GARY.**: Contradiction of the congenital dysplasia-predislocation hypothesis of congenital dislocation of the hip through a study of the normal variation in acetabular angles at successive periods in infancy (ab), March, 455

—and **ROSS, STEVEN.**: Mongolism (mongoloid deficiency) during early infancy—some newly recognized diagnostic changes in the pelvic bones (ab), March, 456

**CAIN, JAMES C.** See **BURGERMAN, ARTHUR**

**CAISSON DISEASE**

—roentgen manifestations (ab), Maxwell H. Poppel and William T. Robinson, May, 779

**CALCIFICATION.** See Adrenals; Aneurysm, splenic; Aorta, syphilis; Appendix; Bronchi; Kidneys; Lymph Nodes; Stomach, cancer; etc.

**CALCINOSIS.** See Kidneys

**CALCIUM.** See Blood, calcium; Radioactivity, radiocalcium

**CALCULI.** See Bile Ducts; Gallbladder; Salivary Glands

**CALDECOTT, RICHARD S.**: Effects of hydration on x-ray sensitivity in Hordeum (ab), March, 475

**CAMERMAN, J.**: Roentgenographic examinations and radiation hazard (ab), Jan., 153

**CAMERON, BRUCE M.**: Osteochondritis dissecans of the ankle joint. Report of a case simulating a fracture of the talus (ab), May, 784

**CAMPBELL, J. E.** See **ANTONY, D. S.**

**CAMPBELL, JAMES L.** See **THOMLEY, MILES W.**

**CAMPUZANO, MANUEL.** See **FALOMIR, JOSÉ M.**

**CANCER**

See also Sarcoma; Tumors, experimental; under organs and regions

- clinical fellowships, American Cancer Society, March, 427
- Seventh International Cancer Conference, April, 586

**cells**

—action of x-rays on mammalian cells (ab), Theodore T. Puck and Philip I. Marcus, March, 475

**etiology.** See also Tumors, experimental

—carcinogenesis by radioactive substances (ab), Jacob Furth and John L. Tullis, May, 791

—danger of cancer from Thorotrast as diagnostic medium (ab), Earl Budin and J. Gershon-Cohen, April, 632

—radiation as carcinogenic agent (ab), Austin M. Brues, Feb., 313

**experimental.** See Tumors, experimental

**in children**

—cancer of thyroid and irradiation (ab), Erich M. Uhlmann, April, 632

**metastases.** See also Bones, cancer; Lungs, cancer; Lymph Nodes, cancer

—four cases illustrating use of  $I^{131}$  in management of metastatic carcinoma of thyroid (ab), John P. Storaasli and Donald P. King, April, 628

—importance of thoracic duct in spread of malignant disease (ab), Alejandro Celis et al., Jan., 126

—mediastinal parathyroid carcinoma with metastases: report of case and review of literature, Irving Weissman, James P. Worden and James M. Christie, March, 352

—radioactive gold in malignant effusions (ab), Owen Millar and J. C. F. MacDonald, March, 470

—serum  $I^{131}$  fractionation in metastatic carcinoma of thyroid; fate of endogenous radiothyroxine after  $I^{131}$  therapy (ab), Manuel Tubis and Franz K. Bauer, Feb., 311

—teleroentgenography in treatment of neoplastic metastases (ab), G. Nadolny, Jan., 147

—treatment of peritoneal and pleural mesothelioma and metastatic malignancy with radioactive colloidal gold (ab), F. M. Lyle and Philip S. King, April, 628

—treatment of primary and metastatic cancer of liver (ab), Irving M. Ariel, March, 464

—vaginal metastases following treatment of endometrial carcinoma (ab), Richard W. Stander, Feb., 304

—vertebral metastasis in renal carcinoma: anatomic correlation (ab), George T. Wohl, March, 454

—vertebral trephine biopsy (for determination of cancer, metastasis) (ab), Wolfgang Ackermann, March, 455

**radiotherapy.** See also Cancer, metastases

—augmenting effects of radiation therapy by chemotherapy and other agents (ab), Raymond R. Lanier et al., June, 910

—depth doses in roentgen grid irradiation (ab), Karl Seidel, Feb., 309

**CANCER, radiotherapy—cont.**

- investigations of dose distribution in grid therapy in phantom and in patient (ab). Hans-Jürgen Eichhorn and Siegfried Matschke, Feb., 309
- isotope implant therapy for internally situated tumors (ab). Paul V. Harper et al. May, 787
- pituitary radon implant for advanced cancer (ab). A. P. M. Forrest et al. March, 462
- technic for permanent implantation of radioisotopes, Ulrich K. Henschke, Feb., 256
- therapeutic use of single doses of total-body radiation (ab). Vincent P. Collins and R. Kenneth Loeffler, Jan., 148

**CANDON, J.** See **BÉTOULIÈRES, P.**

**CANOSI, G. C.** See **LENZI, M.**

**CANTHUS.** See **Eyelids**

**CARABALONA, P.** See **BÉTOULIÈRES, P.**

**CARBON.** See **Radioactivity, radiocarbon**

**CARBON DIOXIDE**

- improved technic for double-contrast examination of colon by use of compressed carbon dioxide, George Levene and S. A. Kaufman, Jan., 83
- in vivo visualization of intracardiac structures with gaseous carbon dioxide; cardiovascular-respiratory effects and associated changes in blood chemistry (ab). M. J. Oppenheimer et al. June, 893
- rate of elimination of labeled carbon dioxide from body (ab). Douglas R. Drury et al. June, 914

**CARBON MONOXIDE**

- protective action of carbon monoxide in mammalian whole-body x-irradiation (ab). Eugene B. Konecni et al. Feb., 315

**CARCINOID (argentaffinoma).** See **Intestines, tumors**

**CARDIA.** See **Stomach**

**CARDIOVASCULAR SYSTEM**

See also **Aneurysm; Aorta; Heart; etc.**

**abnormalities**

- cardiovascular changes in dystrophia mesodermalis congenita Marfan (ab). P. Amundsen and I. Holter, March, 441
- congenital anomalies of large mediastinal vessels (ab). Franco Chiariotti and Carlo Picchio, Feb., 289
- congenital vascular lesions imitating patent ductus (ab). Carl Davis, Jr., et al. March, 442
- displacements of barium-filled esophagus by cardiovascular lesions (ab). Nathaniel E. Reich and David E. Ehrlich, Feb., 286
- malignant argentaffinoma associated with cardiovascular abnormalities (ab). W. R. Eyer et al. Jan., 129

**roentgenography**

- angiocardigraphic mixing defects as indicators of left to right shunts (ab). Melvin M. Figley et al. April, 603
- angiocardigraphic observations of intracardiac flow in the normal and in mitral stenosis (ab). Louis A. Soloff et al. Jan., 128
- angiocardigraphy in intrathoracic tumors with particular reference to question of operability (ab). Per Amundsen and Edvin Sørensen, Jan., 126
- blood pressure and heart rate during angiocardigraphy, abdominal aortography, and arteriography of lower extremities (ab). A. K. Amundsen et al. April, 604
- buckling of carotid artery demonstrated by angiocardigraphy (ab). Walter Lentino et al. March, 442
- growing importance of cardiovascular radiology (ab). Fred J. Hodges, May, 767
- in vivo visualization of intracardiac structures with gaseous carbon dioxide; cardiovascular-respiratory effects and associated changes in blood chemistry (ab). M. J. Oppenheimer et al. June, 893
- physiological effect of contrast media (Neo-Iopax, Diodrast, and Urokon) used for angiocardigraphy (ab). George G. Rowe et al. April, 604
- position of radiology in cardiovascular diagnosis (ab). Fred J. Hodges, March, 439
- temporary arrest of contrast medium in angiocardigraphy (ab). Alejandro Celis et al. March, 443

**CARDON, ORSON P.** See **SCHLUGER, JOSEPH**

**CARLSON, KENNETH E.** See **ROBERTS, JAMES C., Jr.**

**CARMAN LECTURE.** See **Radiological Society of North America**

**CARNES, WILLIAM H., KAPLAN, HENRY S., BROWN, MARY B., and HIRSCH, BARBARA B.:** Indirect induction of lymphomas in irradiated mice. III. Role of the thymic graft (ab). May, 794

—See **KAPLAN, HENRY S.**

**CARNESALE, PETER L., and STEGMAN, KENNETH F.:** Blastomycosis of bone. Report of four cases (ab). June, 898

**CAROTHERS, E. L.** See **HAHN, P. F.**

**CAROTID ARTERY.** See **Arteries**

**CARROLL, DAVID S.** See **BRADY, BOYER M.**

**CARROLL, ROBERT E., GODWIN, JOHN T., and WATSON, WILLIAM L.:** Osteogenic sarcoma of phalanx after chronic roentgen-ray irradiation (ab). June, 915

**CARTER, JOHN H., DICKERSON, ROBERT, and NEEDY, CARL:** Angiosarcoma of bone: a review of the literature and presentation of a case (ab). May, 778

**CARTER, R. E., BOND, V. P., and SEYMOUR, P. H.:** Relative biological effectiveness of fast neutrons in mice (ab). April, 634

—See **BOND, V. P.**

**CARTILAGE**

- autoradiographic study of organically bound carbon-14 in growing epiphyseal cartilage and bone (ab). Richard C. Greulich, April, 632

**CARTWRIGHT, G. E.** See **BUSH, J. A.**

**del CASTILLO, HERMILO.** See **CELIS, ALEJANDRO**

—See **CICERO, RAÚL**

**CASWELL, R. S.:** Neutron-insensitive gamma-ray dosimeter, Jan., 101

**CATHETERIZATION.** See **Arteries, pulmonary; Heart**

**CATHODE RAYS.** See **Electrons**

**CATZ, BORIS, and STARR, PAUL:** Cancer of the thyroid, with metastases to the lungs. Condition shown by scintigram in absence of definite x-ray findings (ab). Jan., 150

**CAVE, P., BURFIELD, G. A., and RANKIN, J. A.:** Report on 1028 cases of intravenous urography with sodium acrizoate (Diaginol) as contrast medium (ab). Jan., 142

**CEBALLOS, JORGE.** See **SCHNEIDER, MARTIN**

**CECUM****perforation**

- roentgen criteria of impending perforation, Leonard Davis and Robert M. Lowman, April, 542

**volvulus.** See **Intestines, volvulus**

**CELIS, ALEJANDRO, CICERO, RAÚL, del CASTILLO, HERMILO, and ARCE G., ENRIQUE:** Temporary arrest of the contrast medium in angiocardigraphy (ab). March, 443

**—KUTHY, JOSÉ, and del CASTILLO, HERMILO:** The importance of the thoracic duct in the spread of malignant disease (ab). Jan., 126

**CELLS.** See **Cancer, cells**

**CEMBER, H., HATCH, T. F., WATSON, J. A., GRUCCI, T., and BELL, P.:** The elimination of radioactive barium sulfate particles from the lung (ab). May, 796

**CEREBELLUM**

- effects of acute x-irradiation on evoked cerebellar response (ab). John C. Lee et al. Feb., 315

**tumors**

- unusual case of Lindau's disease. Cystic disease of kidneys and pancreas with renal and cerebellar tumors (hemangioblastoma) (ab). Frank Isaac et al. March, 460
- vertebral angiography in diagnosis of hydrocephalus and differentiation between stenosis of aqueduct and cerebellar tumor (ab). F. Olov Löfgren, May, 757

**CEREBROSPINAL FLUID**

- presence of foam in cerebrospinal fluid in encephalography (ab). F. Petrović, Jan., 122
- transfer of potassium between blood, cerebrospinal fluid and brain tissue (ab). Guilford G. Rudolph and Norman S. Olsen, May, 789

**CEREBRUM.** See **Brain**

**CERTA, H., and HEITE, H.-J.:** On the spreading effect of x-rays as measured by intradermal pressure (ab). Jan., 155

**CESIUM.** See **Radioactivity, radiocesium**

**CHALEK, C. C.** See **WOODRUFF, J. H., Jr.**

**CHAMBERLAIN, A. C., and DYSON, E. D.:** Dose to the trachea and bronchi from the decay products of radon and thoron (ab). April, 633

**CHAMBERLAIN, RICHARD H.** See **TRISTAN, THEODORE A.**

**CHAMBERLAIN, W. EDWARD.** See **RATTNER, HERBERT**

**CHAPMAN, JOHN S.:** Tuberculosis in infants and children. A review (ab). Jan., 123

**CHAPMAN, SAMUEL B.:** Radiologic evaluation of chest lesions in children (ab). April, 603

—See **LOCKWOOD, IRA H.**

**CHAPMAN, WILLIAM H., and JEROME, EDWARD A.:** An analysis of the effects of total-body x-irradiation on body weight of white Swiss mice. II. Body-weight changes of male mice as a biological dosimeter (ab). April, 633

**CHARBENEAU, HAROLD P.** See **MARTNER, EDGAR E. CHARCOAL**

- stable, low-background, high-efficiency scintillation counter for analysis of low levels of radon concentrated by adsorption on charcoal. H. F. Lucas, Jr., Feb., 258

**CHARR, ROBERT:** Pulmonary changes in welders. Report of three cases (ab). April, 602

**CHAUDHURY, D. C. ROY.** See **KONAR, N. R.**

**CHEMICALS AND CHEMOTHERAPY**

- augmenting effects of radiation therapy by chemotherapy and other agents (ab). Raymond R. Lanier et al. June, 910
- bronchogenic carcinoma and pulmonary tuberculosis; problems in diagnosis with special reference to antituberculous chemotherapy (ab). Herman Weissman, June, 888

**CHEN, IRENE.** See **FULLER, JOHN B.**

**CHÉRIGIÉ, E.:** Radiology of the inflamed small intestine. Functional and organic signs of inflammatory disease (ab). Jan., 133

**CHERUBISM.** See **Jaws**

**CHEST.** See **Thorax**

**CHEVROT, L.** See **PHÉLINE, CH.**

—See **VIALLET, P.**

**CHIARIOTTI, FRANCO, and PICCHIO, CARLO:** Congenital anomalies of the large mediastinal vessels (ab). Feb., 289

**CHIAT, HAROLD.** See **LOITMAN, BERNARD S.**

**CHILDREN**

- See also **Bones, pathology; Cancer, in children; Heart, abnormalities; Hip, dislocation; Infants, Newborn; Infants, Premature; Intussusception; Tuberculosis, in children**

**CHILDREN—cont.**

- acute hematogenous osteomyelitis (in 99 children) (ab), Morris Green et al, Jan., 138
- arteriovenous aneurysm of posterior fossa in an infant; case (ab), E. C. Schultz and William A. Huston, Jan., 121
- developmental changes of skull as seen on roentgenograms (ab), K. H. Schiffer, May, 760
- dysplasia epiphysealis multiplex; case in Bantu child (ab), E. Cope et al, May, 779
- excretory pyelography in infants; technic for intravenous injection (ab), Edward B. Singleton and Gynyon H. Harrison, March, 458
- familial dysautonomia: pulmonary manifestations (ab), Ralph E. Moloshok and John E. Moseley, Jan., 127
- fractures of spine in children (ab), Otto Lehmann, April, 611
- incidence of spina bifida occulta in relation to age (ab), Wataru W. Sutow and Arthur W. Pryde, Jan., 139
- mediastinal tumors in children (ab), Edward B. Singleton and E. Wiley Biles, June, 891
- multiple skeletal lesions in young children due to trauma (ab), Harry Bakwin, May, 777
- neuroblastoma in infancy and childhood: review of 10 years experience (ab), C. W. Reiquam et al, April, 621
- non-specific spondylitis in children (ab), H. Wissler, April, 612
- Pneumocystis carinii pneumonia in infant (ab), Georges Dauzier et al, June, 890
- polycystic disease of kidney in infants; nephrograms following intravenous urography (ab), C. L. Hinkel and L. C. Santini, May, 784
- presence of foam in cerebrospinal fluid in encephalography (ab), F. Petrović, Jan., 122
- radiologic evaluation of chest lesions in children (ab), Samuel B. Chapman, April, 603
- recurrent pulmonary hemorrhage with hemosiderosis: so-called idiopathic pulmonary hemosiderosis (ab), André J. Bruwer et al, May, 766
- renal tubular disease with nephrocalcinosis: 2 unusual cases (ab), J. A. James, April, 615
- roentgen study of spinal cord tumors in children (ab), J. Lefebvre et al, May, 784
- roentgenographic manifestations of congenital megacolon (Hirschsprung's disease) in early infancy (ab), Carroll Z. Berman, June, 896
- role of irradiation in treatment of Wilms' tumor in children (ab), H. Dabney Kerr and Robert E. Flynn, March, 465
- significance of digital impressions in children's skulls (ab), George du Boulay, May, 759
- simple approach to roentgen diagnosis of abdominal tumors in infants and children (ab), Charles M. Nice, Jr., et al, March, 459
- simple instrument for urethrocytography and fistulography in adults and children (ab), Åke Gullmo, April, 616
- some rare causes of vomiting in infancy and childhood (ab), S. P. Rawson, March, 460
- subdural collections of fluids in infants and children. II. Study with radioactive sodium phosphate ( $P^{32}$ ) (ab), R. M. N. Crosby and Robert E. Bauer, Jan., 121
- utilization of total simultaneous cerebral angiography by intravenous route in child (ab), Ch. Pheline et al, May, 755
- vertebral changes in childhood leukemia, Bernard S. Epstein, Jan., 65
- CHILDS, DONALD S., Jr.** See **WILLIAMS, MARVIN M. D.**
- CHILDS, WESLEY A.** See **SPENSLEY, ROBERT D.**
- CHIN, E. F., and LYNN, R. B.:** Surgery of eventration of the diaphragm (ab), May, 772
- CHLORPROMAZINE HYDROCHLORIDE**
  - new drugs for irradiation sickness, Basil A. Stoll, March, 380
- CHOANAE.** See **Nose**
- CHOLANGIOGRAPHY.** See **Biliary Tract**
- CHOLECYSTITIS.** See **Gallbladder**
- CHOLECYSTOGRAPHY.** See **Gallbladder, roentgenography**
- CHOLEGRAPHY.** See **Gallbladder, roentgenography**
- CHOLESTEATOMA.** See **Tumors, cholesteatoma**
- CHOLESTRAFIN.** See **Biliary Tract; Eyes; Gallbladder**
- CHONDROMA.** See **Tumors, chondroma**
- CHRISTENSEN, WM. R., and WARNER, ROBERT S.:** The A-V lecture kit, March, 415
- CHRISTIE, JAMES M.** See **WEISSMAN, IRVING**
- CHRISTOPHERSON, WILLIAM M., and BERG, HAROLD F.:** A histopathological study of lymph nodes irradiated with colloidal Au<sup>199</sup> (ab), Feb., 311
- CHROMIUM.** See **Radioactivity, radiochromium; Radioactivity, radiophosphorus**
- CHYNN, KUO-YORK, and SANTE, L. R.:** Roentgenologic method for demonstration of bronchopulmonary segments in fully expanded cadaver lungs in situ (ab), Feb., 280
- CIAN, LOUIS G.** See **DAVIS, HUGH J.**
- CICERO, RAÚL, del CASTILLO, HERMILO, FERNÁNDEZ, MARTHA, and MOULÓN, MARIO:** Selective angiopneumography and a correlative study of bronchography and the histopathologic findings in tuberculous fibrothorax (ab), Jan., 124
- See **CELIS, ALEJANDRO**
- CIFARELLI, FRANCISCO P.:** Radiological diagnosis of hydatidosis (ab), June, 905
- CINERADIOGRAPHY**
  - cerebral cineangiography with image intensifier (ab), H. Verbiest and J. Feddema, June, 907

- CIRCULATION.** See **Blood, circulation; Brain, blood supply; Lungs, blood supply; etc.**
- CIRRHOSIS.** See **Liver, cirrhosis**
- CISTERNS, CEREBRAL.** See **Meninges**
- CITRIN, LESTER I.** See **FISHMAN, ROBERT**
- CIVIL DEFENSE.** See **Atomic Bomb and Atomic Energy**
- CLAGETT, O. THERON.** See **JACKSON, ROBERT C.**
- See **WEED, LYLE A.**
- See **ZIMMER, JAMES F.**
- CLARK, JOHN M.** See **KOCH, RICHARD**
- CLARK, JOHN W.** See **VOGEL, HOWARD H., Jr.**
- CLARKE, B. G., GOADE, WILLIAM J., Jr., RUDY, HAROLD L., and ROCKWOOD, LAWRENCE:** Differential diagnosis between cancer and solitary serous cyst of the kidney (ab), April, 615
- CLATWORTHY, H. WILLIAM, Jr., HOWARD, WILLIAM H. R., and LLOYD, JAMES:** The meconium plug syndrome (ab), March, 448
- CLAUSEN, EDWIN G.** See **PETERSON, H. HARVEY**
- CLAVICLE**
  - duplication of clavicle ("os subclaviculare"), Charles R. Golthamer, April, 576
- CLAYTON, RALPH S., Sr.:** Carcinoma of the cervix uteri: ten-year study with comparison of results of irradiation and radical surgery, Jan., 74
- CLETSONWAY, RICHARD W.** See **LEWIS, EVAN L.**
- CLEVE, EDWARD A.** See **HENSLE, NESTOR M.**
- COBALT.** See **Radioactivity, radiocobalt**
- COCCIDIOIDOMYCOSIS**
  - chronic benign residuals of coccidioidomycosis (ab), Nestor M. Hensler and Edward A. Cleve, May, 765
  - coccidioidomycosis: review and presentation of 100 consecutively hospitalized patients (ab), Denis J. O'Leary and Francis J. Curry, Feb., 284
- COCHRANE, A. L., and MIAL, W. E.:** Factors influencing the radiological attack rate of progressive massive fibrosis (ab), March, 438
- COHAN, BRUCE E.:** Aqueous humor outflow: an experimental study using radiopaque materials. I. Paracentesis technique, response evoked, and demonstration of pathway of outflow (ab), May, 762
- COHEN, E. M.** See **KREMENS, V.**
- COHEN, JEROME.** See **SILVERMAN, FREDERIC N.**
- COHEN, JONATHAN.** See **LOONEY, W. B.**
- COHEN, SAMUEL, PERLBERG, HARRY J., and LARDE-ARTEZ, C. R.:** The use of Viscidol in bronchography, Feb., 197
- COHEN, SIDNEY.** See **WESSLER, STANFORD**
- COLE, E. R.** See **STEWART, H. B.**
- COLE, JACK W., KROHMER, JACK, BONTE, FREDERICK J., and SCHATTEN, WILLIAM:** An experimental study of intrahepatic distribution of portal blood (ab), March, 468
- COLEMAN, JAMES L.** See **SINGLETON, A. O., Jr.**
- COLEY, BRADLEY L.** See **CRUZ, MIGUEL**
- COLLER, J. S.:** A new method of the measurement of objects by x-rays with special reference to pelvimetry (ab), June, 906
- COLLINS, VINCENT P., and LOEFFLER, R. KENNETH:** Therapeutic use of single doses of total body radiation (ab), Jan., 148
- COLLODI, GEORGE A.** See **GIESELMAN, RALPH V.**
- COLON**
  - See also **Intestines**
  - acute pancreatitis; preliminary investigation of new radio-diagnostic sign (transverse colon "cut-off" sign) (ab), Charles Stuart, May, 773
  - positional relation of gallbladder to hepatic flexure (ab), Harold G. Jacobson et al, May, 773
  - significance of ureteral studies in surgery of colon and rectum (ab), H. E. Bacon and L. McCrea, March, 458
- CANCER**
  - negative x-ray report (ab), Gordon S. Ramsay, March, 448
- CYSTS**
  - pneumatosis involving left side of colon (ab), Richard H. Marshak et al, June, 897
  - pneumatosis coli (ab), Richard H. Marshak and Joan Eliassoph, Jan., 133
- DILATATION**
  - roentgenographic manifestations of congenital megacolon (Hirschsprung's disease) in early infancy (ab), Carroll Z. Berman, June, 896
- HERNIA.** See **Hernia, inguinal**
- ROENTGENOGRAPHY.** See **Colon, cancer; Intestines, roentgenography**
- TUMORS**
  - lymphosarcoma of large bowel (ab), Martins da Silva, May, 773
  - volvulus. See **Intestines, volvulus**
- COLUMELLA, F., and PAPO, I.:** Vertebral angiography in supratentorial expansive processes (ab), May, 758
- COMARR, A. ESTIN:** Position of the patient for roentgenologic interpretation of prostaticogram (ab), March, 459
- COMBE, P.** See **PHELINE, CH.**
- See **VIALLET, P.**
- COMROE, JULIUS H., Jr.** See **BARDEN, ROBERT P.**
- COMSTOCK, GEORGE W.:** Tuberculosis studies in Muscogee County, Georgia. V. Tuberculosis mortality during seven years after a community-wide survey (ab), Jan., 124
- CONARD, ROBERT A.:** Some effects of ionizing radiation on the physiology of the gastrointestinal tract: a review (ab), June, 916

**CONCRETE**

—attenuation of 86- and 176-MEV synchrotron x-rays in concrete and lead (ab), William Miller and Robert J. Kennedy, April, 636

**CONGDON, C. C., MCKINLEY, T. W., JR., SUTTON, H., and URSO, P., Jr.:** Effect of transfusions of blood showing extreme leukocytosis on survival of x-irradiated mice (ab), April, 634

**CONGRESS OF RADIOLOGY AND ELECTROLOGY OF LATIN CULTURE (Fourth).** Jan., 109

**CONIGLIO, JOHN G., MCCORMICK, DONALD B., and HUDSON, GRANVILLE W.:** Biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (ab), April, 635

**CONLEY, JOHN J.:** Skin replacement for severe radiation dermatitis of the face (ab), March, 475

**CONTAMINATION**

—case of accidental puncture contaminated with Th<sup>232</sup>. Studies on elimination and residual body activity, P. F. Gustafson, L. D. Marinelli and E. A. Hathaway, March, 358

—medical care of wounds contaminated with radioactive materials (ab), Asher J. Finkel and Earl A. Hathaway, March, 476

**CONTE, F. P. See UPTON, A. C.**

**CONTRAST MEDIA**

See also Barium; Bronchi, roentgenography; Cardiovascular System, roentgenography; Gallbladder, roentgenography; Iodine and Iodine Compounds; Pyelography; etc.

—contrast medium injury to spinal cord produced by aortography: pathologic anatomy of experimental lesion (ab), G. Margolis et al., May, 770

**CONWAY-HUGHES, J. H. L.:** Oesophageal reflux. An analysis of 453 consecutive barium meal examinations (ab), April, 607

**COOK, ELLSWORTH B. See ELLINGER, FRIEDRICH**

**COOPER, JOHN A. D. See BULKLEY, GEORGE J.**

**COOPER, MILTON, and OWEN, CHARLES A., Jr.:** Labeling human erythrocytes with radiochromium (ab), March, 472

**COPE, E., MORRIS, C., and GETZ, S. H.:** Dysplasia epiphysealis multiplex. Report of a case in a Bantu child (ab), May, 779

**COPE, JEROME A. See SHEK, JOHN L.**

**COPPER**

—studies on copper metabolism. XXI. Transfer of radio-copper between erythrocytes and plasma (ab), J. A. Bush et al., March, 472

**COPROLITHS. See Feces**

**CORMACK, D. V. See SKARSGARD, L. D.**

**CORNEA**

—clinical experiences (especially with lesions of cornea) with strontium 90 applicator (ab), Eugene F. Lutterbeck and Irvin F. Hummon, Jr., Jan., 152

**CORNWELL, WILLIAM S., and RAMSEY, GEORGE H.:** Unusual bilateral sacrococcygeal ossicles, Jan., 70

**CORONARY VESSELS**

—method for coronary arteriography (ab), Louis M. Levy et al., March, 444

**CORPE, RAYMOND F., and HWA, EUGENE C.:** A correlated bronchographic and histopathologic study of bronchial disease in 216 tuberculous patients (ab), March, 437

**CORRIGAN, KENNETH E. See MARTNER, EDGAR E.**

**CORSENTINO, B. See NETSKY, MARTIN G.**

**CORTISONE. See Adrenocortical Preparations**

**COUNTERS**

—automatic brain scanner for use with gamma-ray-emitting isotopes, W. B. Reid and H. E. Johns, Feb., 259

—cancer of thyroid, with metastases to lungs. Condition shown by scintigram in absence of definite x-ray findings (ab), Boris Catz and Paul Starr, Jan., 150

—in vivo method for determination of cardiac output (externally positioned scintillation counter and radioiodinated human serum albumin as tracer), Robert E. Mack, Herschel J. Wells and Robert Pollack, Feb., 245

—Los Alamos human counter (ab), Ernest C. Anderson et al., March, 473

—scintillation spectrometer, measuring instrument in radiological practice (ab), Walter Kolb, June, 911

—scintiscanning as method for localization of cerebral tumors (ab), Robert L. Bell et al., May, 758

—small end-window and angle-window Geiger counters; measurement of radioactivity in intra-ocular tumors following injection of radioactive phosphorus (ab), Charles I. Thomas et al., April, 630

—stable, low-background, high-efficiency scintillation counter for analysis of low levels of radon concentrated by adsorption on charcoal, H. F. Lucas, Jr., Feb., 258

—transilluminator for use with curved Geiger counter; aid to localization of posterior intra-ocular tumors (ab), Charles I. Thomas and Jack S. Krohmer, April, 630

**COWIE, THOMAS N.:** Congenital spinal deformities of surgical importance (ab), May, 780

**COX, W. F. See NEMET, A.**

**COXA PLANA. See Osteochondritis deformans juvenilis**

**COXE, WILLIAM. See HAYNE, ROBERT A.**

**CRAIG, J. WALLACE. See BRETT, G. Z.**

**CRAMER, FRITZ, and HUDSON, FRANK:** Myelographically demonstrated lesions of the cervical intervertebral discs, co-existing with tumors and other causes of myelopathy (ab), May, 783

**CRANIUM**

See also Head

—grooved atrophy of parietal bone (ab), J. Gros, June, 885

—trigonocephaly, Paul A. Riemenschneider, June, 863

**diseases**

—inflammatory craniopathies. Various stages in development of theory (ab), Mario Bertolotti, Feb., 278

**roentgenography. See also Cranium, tumors**

—developmental changes of skull as seen on roentgenograms (ab), K. H. Schiffer, May, 760

—significance of digital impressions in children's skulls (ab), George du Boulay, May, 759

**tumors**

—tumor of bone of vascular origin; anatomical-radiological considerations of primary hemangioma of skull (ab), Giovanni Baldini and Luigi Ferri, April, 611

**CRASTNOPOL, PHILIP. See HOCHBERG, LEW A.**

**CRAWFORD, EDWARD J., JR., ROBINSON, LEWIS S., and HORNBuckle, LLOYD A.:** Surgery as an adjunct to irradiation therapy in carcinoma of the cervix. Preliminary report (ab), April, 620

**CRAWFORD, PATRICK, MOLNAR, WILLIAM, and KLASSEN, KARL P.:** Transcarotid aortography (ab), May, 768

**CROSSBY, LEONARD GREEN (obit), May, 747**

**CROSSBY, R. M. N., and BAUER, ROBERT E.:** Subdural collections of fluid in infants and children. II. Study with radioactive sodium phosphate (P-32) (ab), Jan., 121

**CROSBY, WILLIAM H., SAPP, R. L., and ANDERSON, HJALMAR, Jr.:** A series of patients with chronic titrated irradiation therapy in carcinoma of the cervix (ab), April, 620

**CRUMPTON, CHARLES W. See ROWE, GEORGE G.**

**CRUZ, MIGUEL, and COLEY, BRADLEY L.:** Aneurysmal bone cyst (ab), May, 777

**CULVER, GORDON J., and FIRSON, HERBERT S.:** Splenic artery aneurysm. Report of 17 cases showing calcification on plain roentgenograms, Feb., 217

**CUMMINS, CHRISTOPHER. See DOMM, SHELDON E.**

**CUNEIFORM BONE. See Tarsus**

**CUNNINGHAM, JAMES B., and ACKERMAN, LAUREN V.:** Metaphyseal fibrous defects (ab), May, 778

**CUNNINGHAM, R. M. See HILTON, GWEN**

**CURRY, FRANCIS J. See O'LEARY, DENIS J.**

**CURTIS, ARTHUR C. See JANSEN, G. THOMAS**

**de CUVELAND, E.:** Concerning etiology of osseous bridges between lumbar transverse processes (ab), May, 781

**CYCLIZINE HYDROCHLORIDE**

—new drugs for irradiation sickness, Basil A. Stoll, March, 380

**CYCLOTRON. See Neutrons; Protons**

**CYSTICERCOSIS. See Brain, cysticercosis**

**CYSTINE**

—disulfide reduction and release of iodide 131 following irradiation of I<sup>131</sup> labeled proteins, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100

**CYSTOURETHROGRAPHY. See Bladder; Urethra**

**CYSTS**

See also Biliary Tract; Bones; Kidneys; Lungs; Ulna

branchial. See Fistula, branchial

extradural. See Spine, cysts

paraphyseal. See Brain, cysts

**D**

**DAHLIN, DAVID C. See ZIMMER, JAMES F.**

**DALITH, F.:** Cervical oil myelography with full hyperextension of the neck. A modified technique (ab), May, 762

Systolic expansion or aorto-diastolic displacement. A roentgenographic study of left atrial movements in mitral cardiopathy (ab), Jan., 128

**DALENBACH, F. See MOOS, W. S.**

**DALY, JOHN F. See STARK, ERNEST**

**DANOWSKI, T. S. See GIRDANY, B.**

**DARK ADAPTATION. See Roentgen Rays, fluoroscopy**

**DATTA GUPTA, A. K.:** Osseous metastasis of thyroid origin (ab), Feb., 296

**DAUZIER, GEORGES, WILLIS, THAYER, and BARNETT, ROY N.:** Pneumocystis carinii pneumonia in an infant (ab), June, 890

**DAVES, MARVIN L., GOULD, DAVID M., and SCHULTZE, GUNTER:** Roentgen findings in patients with high serum calcium, Jan., 48

**DAVIDSON, S. WHATELY:** Some anomalies of the respiratory system (ab), May, 762

**DAVIES, A. G. M.:** Bone changes in Kaposi's sarcoma. An analysis of 15 cases occurring in Bantu Africans (ab), May, 779

**DAVIES, PAUL M.:** Some diagnostic difficulties in cases with cascade stomach and chronic gastric volvulus (ab), June, 894

**DAVILA, JULIO C. See JANTON, O. HENRY**

**DAVIS, CARL, JR., FELL, EGBERT H., GASUL, B. M., and DILLON, ROBERT:** Congenital vascular lesions imitating the patent ductus (ab), March, 442

**DAVIS, COURTLAND H., JR. See FOWLER, FRED D.**

**DAVIS, EDGAR W., KATZ, SOL, and PEABODY, J. WINTHROP, Jr.:** Calcification within the solitary pulmonary nodule. A fallible sign of benignity (ab), June, 890

**DAVIS, HUGH J., and CIAN, LOUIS G.:** Positive pressure urethrography: a new diagnostic method (ab), Feb., 301

**DAVIS, LEONARD, and LOWMAN, ROBERT M.:** Roentgen criteria of impending perforation of the cecum, April, 542

- DEALY, JAMES B., Jr.:** Mitral-valve disease. A radiologic approach to a physiologic diagnosis (ab), March, 441
- DeAMICIS, EGILDA, and WILLIAMSON, EARLE W.:** Determination of radioiodine uptake in thyroids by two methods (ab), June, 911
- DEAN, DAVID L., ELLIS, F. HENRY, Jr., and SAUER, WILLIAM G.:** Intussusception in adults (ab), June, 895
- DEAVERS, S. See SMITH, E. L.**
- DEBOO, S. N.:** Non-malignant conditions causing dysphagia (ab), March, 445
- DEBRY, G. See HERBEUVAL, R.**
- DECKER, DAVID G. See FRICKE, ROBERT E.**
- DELEY, T. J. See MORRISON, R.**
- DEFICIENCY DISEASES**  
—roentgenological findings in small intestine in 100 repatriated prisoners of war. Deficiency states and worm infestations (ab), Walter Francke, May, 773
- DEGLUTITION disorders**  
—abnormal swallowing in central-nervous-system and neuromuscular disease (ab), Maxwell H. Poppel et al, Jan., 123  
—hoarseness and painful deglutition due to massive cervical exostoses (ab), Charles V. Heck, April, 600  
—non-malignant conditions causing dysphagia (ab), S. N. Deboo, March, 445  
—radiology of pharyngo-esophageal region; Plummer-Vinson syndrome (ab), Victorino D'Alotto, Feb., 289
- DEHYDRATION**  
—effects of hydration on x-ray sensitivity in Hordeum (ab), Richard S. Caldecott, March, 475
- DELANDTSHEER, J. M. See LAINE, E.**
- DELANDTSHEER-ARNOTT, G. See LAINE, E.**
- DELARUE, JACQUES, and ABELANET, RENÉ:** Experimental production of bronchiectasis in dogs (ab), April, 602
- DELPINO, B. See BALESTRA, G.**
- DENNIS, JOHN M., and BOUDREAU, ROBERT P.:** Pleuropulmonary tularemia: its roentgen manifestations, Jan., 25
- DENTISTRY**  
—osteogenic sarcoma of phalanx after chronic roentgen irradiation (in dentist) (ab), Robert E. Carroll et al, June, 915
- DEPRAZ, A. See PIONNIER, R.**
- DERHAM, R. J.:** Postprimary intrathoracic tuberculosis in childhood with special reference to its sequelae (ab), June, 888
- DERIAN, PAUL S.:** Coxa plana in dizygotic male twins (ab), May, 783
- DERMATOLOGY. See Skin**
- DERMATOMYOSITIS**  
—interstitial pneumonitis in dermatomyositis (ab), Edward S. Mills and William H. Mathews, Feb., 284
- DESCUNTS, P. See VIALLET, P.**
- DEUTSCH, DAVID L.:** Kartagener's triad ( situs inversus, bronchiectasis and sinusitis). Report of a case (ab), June, 891
- DEVI, SAKUNTALA. See REDDY, D. J.**
- DEXTROCARDIA. See Heart, displacement**
- DIAGNOL. See Pyelography**
- DIAPHRAGM**  
See also Hernia, diaphragmatic  
—surgery of eversion of diaphragm (ab), E. F. Chin and R. B. Lynn, May, 772
- DIATRIZOATE. See Pyelography**
- DIAZ BONNET, RAFAEL. See RODRIGUEZ, HECTOR F.**
- DICKERSON, ROBERT. See CARTER, JOHN H.**
- DIFFRACTION ANALYSIS. See Roentgen Rays**
- DIGESTIVE SYSTEM. See Gastrointestinal Tract; Intestines; Stomach; etc.**
- DILLON, ROBERT. See DAVIS, CARL, Jr.**
- DIMANT, STEVENS, MOXON, C. P., and LEWTAS, N. A.:** Cerebral angiography in a neurosurgical service (ab), May, 754
- DIODONE. See Pyelography**
- DIODRAST. See Cardiovascular System, roentgenography; Iodine and Iodine Compounds; Kidneys**
- DIONOSIL. See Bronchi, roentgenography; Lungs, cancer**
- DIPOTRIZOATE. See Pyelography**
- DISCOGRAPHY. See Spine, intervertebral disks**
- DIVERTICULA. See Appendix; Esophagus; Gallbladder**
- DOBYNS, BROWN M.:** Physiologic concepts in the diagnosis and treatment of Graves' disease (ab), March, 467
- DOEL, GEOFFREY:** Osteo-arthritis occlusion of the intervertebral foramina of the cervical spine (ab), May, 781
- DOMM, SHELDON E., WATERMAN, DAVID H., ROGERS, WILLIAM K., and CUMMINS, CHRISTOPHER:** Bronchography with new contrast media. A review (ab), June, 887
- DON, CONWAY, and MURPHY, D. J. L.:** Some difficulties in the diagnosis of carcinoma in the region of the cardia (ab), March, 446
- DONOVAN, CORNELIO. See AHUMADA, JUAN C.**
- DOSIMETERS AND DOSIMETRY**  
See also Electrons; Radioactivity; Roentgen Therapy; Uterus, cancer; etc.  
—advances toward a stable sensitive iron dosimeter, Gail D. Adams and William R. Balkwell, Jan., 101  
—analysis of effects of total-body x-irradiation on body weight of white Swiss mice. II. Body-weight changes of male mice as biological dosimeter (ab), William H. Chapman and Edward A. Jerome, April, 633  
—neutron-insensitive gamma-ray dosimeter, R. S. Caswell, Jan., 101  
—periodic control of function and constancy of ionization chamber dose meters (ab), R. Thoreaus, April, 623  
—photographic personnel dosimeter for x-radiation in range from 30 kev to beyond 1 MEV, Margarete Ehrlich, April, 549
- DOTTER, CHARLES T.:** Teaching of chest radiology to medical students (ab), April, 603
- DOUBLEDAY, LEONARD C. See HARRISON, RICHARD H., III.**
- DOUGLAS, R. GORDON. See JAVERT, CARL T.**
- DOWNING, DANIEL F.:** Congenital aortic stenosis: clinical aspects and surgical treatment (ab), June, 892  
—and GOLDBERG, HARRY: Cardiac septal defects. I. Ventricular septal defect. Analysis of one hundred cases studied during life. II. Atrial septal defect. Analysis of one hundred cases studied during life (ab), March, 439
- DRAKE, E. H. See EYLER, WILLIAM R.**
- DRURY, DOUGLAS R., WICK, ARNE N., and ALMEN, MARY CAROL:** Rate of elimination of labeled carbon dioxide from the body (ab), June, 914
- DUBOIS, KENNETH P. See SULLIVAN, MAURICE F.**
- du BOULAY, GEORGE:** Significance of digital impressions in children's skulls (ab), May, 759
- DUCTUS ARTERIOSUS**  
—angiocardiographic mixing defects as indicators of left to right shunts (ab), Melvin M. Figley et al, April, 603  
—congenital vascular lesions imitating patent ductus (ab), Carl Davis, Jr., et al, March, 442
- DUDLEY, H. C., MARKOWITZ, H. A., and MITCHELL, T. G.:** Studies of the localization of radioactive gallium ( $Ga^{67}$ ) in bone lesions (ab), April, 631  
—and MITCHELL, T. G.: A study of methods for interstitial implantation of radioactive materials (ab), April, 625
- DUHAMEL, JOSEPH, and HERPE, DANIEL:** Summation image in diagnostic roentgenology (ab), March, 461
- DUNBAR, J. S.:** Fractures and pseudarthroses of the first rib (ab), April, 612
- DUNCAN, J. G.:** Radiological manifestations of hyperparathyroidism (ab), March, 460
- DUNNING, GORDON M.:** Two ways to estimate thyroid dose from radioiodine in fallout (ab), March, 468
- DUNSMORE, REMBRANDT H. See HORWITZ, NORMAN H.**
- DUODENUM cancer**  
—primary carcinoma (ab), T. H. Crawford Barclay and H. P. Kent, Jan., 131  
—primary carcinoma of infrapapillary portion (ab), Jacob Rabinovitch et al, June, 896  
—primary malignant neoplasms of duodenum, excluding papilla of Vater; clinicopathologic study of 31 cases (ab), Arthur Burgerman et al, Jan., 132
- fistula. See Fistula**
- obstruction**  
—arteriomesenteric obstruction of duodenum in adult life and adolescence (ab), Erik de F. Licht, April, 608  
—congenital intrinsic obstruction; 32 cases (ab), Thomas C. Moore, June, 895  
—syndrome of mesenteric vascular compression of duodenum; 11 cases with operative correction (ab), Sidney A. Rosenberg and Arnold Sampson, June, 896
- roentgenography**  
—anterior displacement of descending duodenum as aid in diagnosis of retroperitoneal tumor: roentgenographic sign of possible significance in some cases of enlargement of right adrenal gland (ab), Emil J. Ganem et al, Jan., 132  
—duodenal loop changes in posterior penetration of duodenal ulcer (ab), J. George Teplick, March, 447  
—roentgenologic findings in stomach and duodenum in cancer of pancreas (ab), Kaare A. Larsen and Arne Pedersen, April, 608
- ulcers. See Peptic Ulcer**
- DUPUYTREN'S CONTRACTURE**  
—treatment (ab), Karl Wasserburger, June, 910
- DURANT, T. M. See OPPENHEIMER, M. J.**
- DURBIN, PATRICIA W., ROBERTSON, JAMES S., and HAMILTON, JOSEPH G.:** Iodine-131 beta particle dosage in small animals, Jan., 103
- DU SAULT, LUCILLE A.:** Time-dose relationships (ab), Jan., 148
- DWORKEN, HARVEY J.:** Intussusception as a cause of "disappearing" carcinoma of the rectum (ab), Feb., 293
- DYSAUTONOMIA**  
—familial dysautonomia: pulmonary manifestations (ab), Ralph E. Moloshok and John E. Moseley, Jan., 127  
—roentgenographic findings in familial dysautonomia, Rob H. Kirkpatrick and Conrad M. Riley, May, 654
- DYSKINESIA. See Bile Ducts**
- DYSON, E. D.:** Shoe-fitting x-ray fluoroscopes. Radiation measurements and hazards (ab), June, 915  
—See CHAMBERLAIN, A. C.
- DYSPHAGIA. See Deglutition, disorders**
- DYSPLASIA**  
epiphysialis hemimelica. See Epiphyses  
epiphysialis multiplex. See Epiphyses  
fibrous. See Bones; Jaws  
progressive diaphysial. See Bones
- DYSTROPHIA MESODERMALIS CONGENITA MARFAN.**  
See Marfan's Syndrome

**DYSTROPHY, MUSCULAR**

- radiologic findings in relation to severity of disease (ab), B. Girdany and T. S. Danowski, Feb., 295

**E**

**EAGLETON, MARK D.** See **SEAMAN, WILLIAM B.**

**EAR**

- segmental radiography of internal auditory canal in neuromas of eighth nerve (ab), H. Fischgold et al, May, 761

**EASTCOTT, H. H. G., SUTTON, DAVID, and ROB, C. G.:** Discussion on the clinical and radiological aspects of diseases of the major arteries (ab), June, 891

**EASTERN CONFERENCE OF RADIOLOGISTS,** Jan., 108

**EBELING, P., and ROBERTSON, E. GRAEME:** Meningo-encephalitis due to *Brucella abortus* (ab), April, 600

**EBSTEIN'S DISEASE.** See **Tricuspid Valve**

**ECHINOCOCCOSIS**

- See also **Liver; Lungs**
- radiological diagnosis of hydatidosis (ab), Francisco P. Cifarelli, June, 905

**ECKERT, EDWARD L.** See **SCHOENBERGER, JAMES A.**

**ECTODERMAL DEFECT**

- Ellis-Creveld syndrome; case (ab), Elizabeth K. Turner, Jan., 139

**EDEMA**

- diagnostic possibilities of lymphangiography (ab), R. Gergely et al, June, 906
- early disappearance of  $I^{131}$  serum albumin from circulation of edematous subjects and its implications in clinical determination of blood volume (ab), T. W. Moir et al, March, 469

**EDGREN, W., and LAURENT, L. E.:** A method of measuring the torsion of the femur in congenital dislocation of the hip in children (ab), March, 456

**EDGREN-SCHULTZ METHOD.** See **Femur**

**EDINGTON, C. W.** See **STAPLETON, G. E.**

**EDITORIALS**

- attitudes in radiology. Presidential address: Radiological Society of North America, Clarence E. Hufford, March, 425

lymph node-fever relationship in lymphoma, Don E. Matthiesen, May, 739

on questionnaires and records, Herbert L. Abrams, June, 869

sialography, John F. Holt, April, 584

summaries in interlingua, Jan., 106

Viriden, C. Edgar, President of Radiological Society of North America, Ira H. Lockwood, Feb., 262

**EDUCATION**

- A-V lecture kit, Wm. R. Christensen and Robert S. Warner, March, 415

—clinical fellowships, American Cancer Society, March, 427

—course in clinical use of radioactive isotopes, Jan., 109

—course in radiology and radioactive isotopes, University of Kansas, Jan., 109

—fellowships in radiological physics, May, 742

—Freedman lectures, University of Cincinnati, March, 426

—public health traineeships, March, 427

—radioactive isotopes course, University of Southern California, March, 427

—radioiodine course, Georgetown University, March, 426

—radioisotopes course, Cook County Hospital, Chicago, March, 427

—radiologic physics course, Columbia University, March, 426

—radiological physics fellowship, Sloan Kettering Division, Cornell Medical College, March, 427

—teaching aids for instruction in radiologic study of gastrointestinal tract (ab), H. R. Osheroff, April, 610

—teaching of chest radiology to medical students (ab), Charles T. Dotter, April, 603

—television in diagnostic roentgenology (ab), R. Janker (ab), Feb., 301

**EDWARDS, JESSE E.** See **BRUWER, ANDRÉ J.**

**EFFLER, DONALD B.** See **BROWN, CHARLES H.**

—See **GROVES, LAURENCE K.**

**EFFUSIONS.** See **Peritoneum; Pleura, cancer**

**EHRlich, DAVID E.** See **REICH, NATHANIEL E.**

**EHRlich, MARGARETE:** A photographic personnel dosimeter for x-radiation in the range from 30 kev to beyond 1 MEV, April, 549

Disaster monitoring with amateur photographic film and with dental x-ray film, Feb., 251

**EICHHORN, HANS-JÜRGEN, and MATSCHKE, SIEGFRIED:** Investigations of dose distribution in grid therapy in the phantom and in the patient (ab), Feb., 309

**EINHORN, J., and LARSSON, L.-G.:** A lingual goiter treated with radioactive iodine (ab), March, 467

**EISEN, JESSE.** See **MANN, LAWRENCE S.**

**EISENBERG, SANFORD H.** See **NEVIASER, JULIUS S.**

**ELDRIDGE, JAMES S.** See **TYOR, MALCOLM P.**

**ELECTROENCEPHALOGRAPHY.** See **Brain**

**ELECTRONS**

- comparison of biological effects of whole-body irradiation with 22.5 MEV x-rays, 18-MEV electrons, and 400-kev x-rays in rat (ab), John B. Fuller et al, Feb., 315

—electron beam dosimetry of 2 MeV Van de Graaff accelerator, B. W. Shumway and B. Golden, Jan., 104

—electronic isodose computer for planning multiportal radiation therapy, featuring instantaneous display of isodose curves with continuous variability of position and fractional dose in each field, Glen Sandberg and W. S. Moos, Jan., 103

—physical measurements on a 4-MEV linear accelerator, C. A. Murison and H. A. Hughes, March, 367

—preliminary report on clinical use of Medical Research Council 8 MEV linear accelerator (ab), R. Morrison et al, Feb., 307

—Professional Group on Medical Electronics, Institute of Radio Engineers, new "affiliate" plan, March, 428

—stray radiation levels of a 45 MEV travelling wave linear electron accelerator (ab), C. L. Hsieh, Feb., 308

—time-intensity factors in radiation response. I. Acute effects of megavolt electrons (cathode rays) and high- and low-energy x-rays with special reference to brain (ab), Samuel P. Hicks et al, Jan., 154

—use of electron beams in industrial processes, E. Dale Trout, May, 708

**ELIASOPH, JOAN.** See **MARSHAK, RICHARD H.**

**ELKINS, H. B., and KEETTEL, WILLIAM C.:** Radioactive gold in treatment of ovarian carcinoma (ab), April, 628

—See **KEETTEL, WILLIAM C.**

**ELLINGER, FRIEDRICH, MORGAN, JASPER E., and COOK, ELLSWORTH B.:** Use of small laboratory animals in medical radiation biology. IV. Correlation of physical factors with the biological effect produced by total-body irradiation of guinea pigs (ab), June, 917

**ELLIS, P. HENRY, JR.** See **DEAN, DAVID L.**

**ELLIS, PAUL R.** See **SPARKMAN, ROBERT S.**

**ELLIS, R. E.** See **FLATMAN, G. E.**

**ELLIS-VAN CREVELD SYNDROME.** See **Ectodermal Defect**

**EMBOLISM**

- air embolism during presacral pneumography; case (ab), Irving Glassman et al, Jan., 143

—temporary thrombotic state. Application of this concept to therapy of recurrent thrombo-embolism, with bacteriologic and roentgenologic considerations in the differential diagnosis of pulmonary infarction and pneumonia (ab), Stanford Wessler et al, Jan., 130

**EMBRYO**

- hystereography in diagnosis of dead and retained human ovum (ab), Juan C. Ahumada et al, April, 614

**EMMANUEL, RICHARD W., and PATTINSON, J. N.:** Absence of the left pulmonary artery in Fallot's tetralogy (ab), May, 769

**EMPHYSEMA**

- acute emphysematous cholecystitis (ab), J. Kenneth Jacobs, March, 449

—chronic bronchitis, emphysema, and bronchial spasm in bituminous coal workers; epidemiological study (ab), John Pemberton, May, 763

—cystitis and urethritis emphysematosa, C. Soteropoulos, E. Kawashima and John H. Gilmore, June, 866

—radiological diagnosis of obstructive emphysema (ab), Leonard J. Bristol, May, 763

**EMULSIONS, NUCLEAR**

- uptake of radioiodine by thyroid cells using nuclear emulsion (ab), Adrian G. Basser, April, 627

**ENCEPHALITIS.** See **Meningoencephalitis**

**ENCEPHALOGRAPHY.** See **Brain, roentgenography; Sella Turcica**

**ENCEPHALOMALACIA.** See **Brain, diseases**

**ENDOMETRIUM.** See **Uterus, cancer**

**ENEMATA.** See **Intestines, roentgenography**

**ENGELMANN'S DISEASE.** See **Bones, diseases**

**ENGELS, EDWARD P., PAULSON, E. C., and MOSSER, DONN G.:** Therapy of serous cavity effusion with colloidal radioactive gold 198 (ab), June, 913

**ENGSET, ARNEIN.** See **BRUN, SVEN**

**ENGLE, ROBERT B., JACOBSON, GEORGE, and FRASER, ELEANOR R.:** Soft-tissue placentography in diagnosis of bicornuate uterus, March, 408

**ENTENMAN, C.** See **KAY, R. E.**

—See **SUPPLEE, HELEN**

**ENTEROCOLITIS.** See **Intestines**

**ENTEROLITHS.** See **Appendix**

**EOSINOPHILS**

- chronic pulmonary infiltration with eosinophilia in the asthmatic (5 personal observations, including 1 with histopathologic analysis), (ab), J. Turiaf et al, Feb., 283

—solitary eosinophilic granuloma of bone (ab), T. Hunter, March, 452

**EPIDERMAL.** See **Brain, tumors**

**EPIPHYSES**

- autoradiographic study of organically bound carbon-14 in growing epiphyseal cartilage and bone (ab), Richard C. Greulich, April, 632

—dysplasia epiphysealis hemimelica (tarsal-epiphyseal aetiology), Theodore E. Keats, April, 558

—dysplasia epiphysealis multiplex; case in Bantu child (ab), E. Cope et al, May, 779

—multiple epiphyseal dysplasia (ab), Edmund Shephard, March, 452

**EPITHELIUM**

- roentgen demonstration of movements of ciliated epithelium of trachea: experiments on isolated tracheas of slaughtered animals (ab), H. Birzle, March, 436

**EPSTEIN, BERNARD S.:** Vertebral changes in childhood leukemia, Jan., 65

**ERYTHROCYTES**

- blood volume determinations with radioactive chromium ( $Cr^{51}$ ) labeled erythrocytes; feasibility of routine total red blood cell volume determinations in general hospital (ab), Leo M. Meyer, Feb., 311

**ERYTHROCYTES—cont.**

- determination of cell volume in massive transfusions using  $^{51}\text{Cr}$  and  $\text{Cr}^{51}$  (ab), E. L. Smith et al, May, 790
- effect of total-body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), Kee-Chang Huang and James H. Bondurant, April, 635
- isotope studies of blood flow and blood cells (ab), Edith H. Quimby, April, 624
- labeling human erythrocytes with radiochromium (ab), Milton Cooper and Charles A. Owen, Jr., March, 472
- studies on copper metabolism. XXI. Transfer of radio-copper between erythrocytes and plasma (ab), J. A. Bush et al, March, 472

**ESOPHAGUS**

- achalasia of cardia and mega-esophagus: 5 representative cases (ab), Charles H. Brown and C. Peter Albright, May, 772
- effect of radiation on esophagus: clinical and histologic study of effects produced by betatron, William B. Seaman and Lauren V. Ackerman, April, 534

**abnormalities**

- frequency of asymptomatic lower esophageal contractile ring (ab), Philip Kramer, Feb., 290
- cancer**
  - carcinoma of esophagus and gastric cardia (ab), Denis Fuller, June, 908
  - diagnostic significance of radioactive isotopes in early cancer of alimentary tract, especially esophagus and cardia (ab), Komei Nakayama, April, 630
  - difficulties in diagnosis of carcinoma in region of cardia (ab), Conway Don and D. J. L. Murphy, March, 446
  - radiation therapy of carcinoma (ab), K. Schärer, Jan., 144
  - response to irradiation: serial cytologic study of 2 cases (ab), Moshe B. Goldgraber, Feb., 302

**diverticula**

- definition, distribution, and roentgenologic aspects (ab), Brombart, Feb., 289
- of lower part: clinical study of 149 non-surgical cases (ab), Harold C. Habein, Jr., et al, April, 607

**fatula. See Fistula****roentgenography**

- closing mechanism of lower esophagus in man: radiological study of 500 unselected patients (ab), Maxwell H. Poppel et al, March, 445
- diagnosis and differential diagnosis of chronic supracardial changes of lower esophagus (ab), H. Kamieth, April, 606
- displacements of barium-filled esophagus by cardiovascular lesions (ab), Nathaniel E. Reich and David E. Ehrlich, Feb., 286
- esophageal reflux: analysis of 453 consecutive barium meal examinations (ab), J. H. L. Conway-Hughes, April, 607
- radiology of pharyngo-esophageal region: Plummer-Vinson syndrome (ab), Victorino D'Alotto, Feb., 289

**tumors**

- co-occurrence of large leiomyoma of esophagus and squamous-cell carcinoma of thymus; case, with roentgenologic, pathologic and clinical discussion (ab), Howard A. Frank et al, May, 772
- leiomyoma (ab), Joseph Schluger et al, March, 446
- ETTINGER, ALICE, and PEREZ-TAMAYO, RUHERI:** Ulcerative jejunitis in polyarthritis, May, 669
- ETTMAN, IRVING K., BOUCHILLON, C. D., and HALFORD, H. H.:** Gastrointestinal roentgen findings due to untoward effects of hexamethonium, May, 673
- EVANS, JOHN C. See WILDERMUTH, ORLISS**
- EVANS, R. L. See AMATUZZO, D. S.**
- EVANS, TITUS C. See ROUNDS, WAYNE M.**
- EVANS, WILLIAM ALBERT** (obit), Feb., 271

**EXOPHTHALMOS**

- congenital defect of bony orbit and pulsating exophthalmos (ab), Hooshang Tayebi and Frederic N. Silverman, June, 886

**EXOSTOSES. See Spine, exostoses****EXTREMITIES**

- lesions of bones of leg in course of varicose ulcers (ab), A. Poirault, May, 783
- unusual cystic lesion of bone, limited to pelvis and lower extremities. Osteogenesis imperfecta cystica? Charles A. Bream and William H. Sprunt, III, Feb., 179
- blood supply**
  - blood pressure and heart rate during angiocardiology, aortography, abdominal aortography, and arteriography of lower extremities (ab), A. K. Amundsen et al, April, 604
  - clearance of radioactive iodine from lower extremities of patients with myocardial infarction (ab), Franz K. Bauer et al, May, 788
  - congenital peripheral arteriovenous communications; use of femoral artery to heart circulation time in diagnosis (ab), Thomas O. Murphy et al, June, 893
  - evaluation of peripheral arteriosclerotic insufficiency utilizing radioactive iodinated human serum albumin (ab), Earl J. Halligan et al, March, 468
  - functional roentgenologic findings in vascular disorders (ab), Ad. Salotti and D. Lunggetti, Jan., 131
  - importance of translumbar aortogram and peripheral arteriogram in management of vascular disease (ab), Andrew G. Sharf et al, May, 768
- fractures**
  - new method of measurement of objects by x-rays, with special reference to pelvimetry (and long bones) (ab), J. S. Collier, June, 906

**EYELIDS**

- special problem of cancer (ab), Orliiss Wildermuth and John C. Evans, June, 908
- treatment of skin tumors of inner canthus with regard to function of lacrimal ducts (ab), Hansrudolph Renfer, Jan., 143

**EYES**

- See also Aneurysm, ophthalmic; Cornea; Exophthalmos; Lacrimal Organs; Orbit
- aqueous humor outflow: experimental study using radio-paque materials (Urokon Sodium, Hypaque and Cholografin). I. Paracentesis technic, response evoked, and demonstration of pathway of outflow (ab), Bruce E. Cohan, May, 762
- dark adaptation with limited light and color vision, Frederic N. Silverman and Jerome Cohen, May, 733
- evaluation of beta irradiation therapy in ophthalmology (ab), Carroll W. Browning, April, 622

**tumors**

- small end-window and angle-window Geiger counters; measurement of radioactivity in intra-ocular tumors following injection of radioactive phosphorus (ab), Charles I. Thomas et al, April, 630
- transilluminator for use with curved Geiger counter; aid to localization of posterior intra-ocular tumors (ab), Charles I. Thomas and Jack S. Krohmer, April, 630

**EYLER, WILLIAM R., TESLUCK, H., and DRAKE, E. H.:** Malignant argentaflinoma associated with cardiovascular abnormalities (ab), Jan., 129

—See **KENNEY, LEO J.**

**EYRE-BROOK, A. L.:** Some radiosensitive bone tumours (ab), Feb., 302

**F**

**FABELLA DISTALIS.** See Fibula

**FACE.** See Skin

**FAGERBERG, STIG:** Tomographic studies on the normal and injured knee (ab), Feb., 298

**FAILLA, G.:** The flux of secondary ionizing particles in a uniformly irradiated homogeneous medium of varying density: application to walled ionization chambers (ab), Feb., 309

—See **ROSSI, HARALD H.**

**FALK, BENGT:** Radiologic diagnosis of intraventricular meningiomas (ab), May, 759

**FALLOPIAN TUBES**

—roentgen findings in genital tuberculosis in women (ab), Germaine Ratelle and Jean-Louis Léger, Jan., 140

**FALLOT'S TETRALOGY.** See Heart, abnormalities

**FALOMIR, JOSÉ M., CAMPUZANO, MANUEL, and SEPÚLVEDA, BERNARDO:** Splenopertography for the diagnosis of portal hypertension (ab), May, 777

**FAMILIAR, JOHN E. See MANN, LAWRENCE S.**

**FAMILIAL CONDITIONS**

See also Heredity

- cherubism—familial fibrous dysplasia of jaws (ab), Gy. Frikyesi, March, 436
- familial dysautonomia: pulmonary manifestations (ab), Ralph E. Moloshok and John E. Moseley, Jan., 127
- metabolism of idodotyrosines. II. Metabolism of mono- and di-iodotyrosine in certain patients with familial goiter (ab), John B. Stanbury et al, June, 912
- multiple epiphyseal dysplasia (ab), Edmund Shephard, March, 452
- roentgenographic findings in familial dysautonomia, Rob H. Kirkpatrick and Conrad M. Riley, May, 654
- FANCONI, A.:** Pulmonary adenomatosis (ab), Feb., 281
- FARIÑAS, L. MARTÍNEZ. See FARIÑAS, LAURA**
- FARIÑAS, LAURA, GÓMEZ ZALDÍVAR, RAFAEL, LLAMBES, JUAN, and FARIÑAS, L. MARTÍNEZ:** Evaluation of the different radiologic methods in the diagnosis of carcinoma of the lung (ab), June, 889

**FARRAN, HELEN E. A. See ABBATT, JOHN D.**

**FASTING**

- biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (ab), John G. Coniglio et al, April, 635

**FAT**

- re-evaluation of fat-free preparatory meal in Telepaque cholecystography (ab), Walter M. Whitehouse, May, 775

**FAURÉ, C. See LÉFÈBVRE, J.**

**FECES**

- coproliths, R. M. Berg and H. M. Berg, June, 839
- evaluation of fecal recovery method for determining intestinal absorption of cobalt<sup>57</sup>-labeled vitamin B<sub>12</sub> (ab), James A. Halsted et al, May, 790

**FEDDEMA, J. See VERBIEST, H.**

**FEFFER, HENRY L.:** Treatment of low-back and sciatic pain by the injection of hydrocortisone into degenerated intervertebral discs (ab), April, 612

**FEINBERG, S. B.:** Posterior mediastinal hemangioma, Jan., 90  
Roentgenographic findings in respiratory problems of infants (ab), March, 439

—and **GOLDBERG, M. E.:** Hyaline membrane disease: preclinical roentgen diagnosis. A planned study, Feb., 185

—See **GREENSPAN, R. H.**

**FEINBLATT, THEODORE M., and FERGUSON, EDGAR A., Jr.:** Timed-disintegration capsules. An in vivo roentgenographic study (ab), March, 460

- FEIRING, EMANUEL H., and SUSSMAN, BERNARD J.:** Spontaneous occlusion of the middle cerebral artery (ab), June, 884
- FEIST, JOHN H., and LITTLETON, JESSE T.:** Incidence of benign gastric ulcers on the greater curvature. Presentation of three cases (ab), March, 446
- FEJER, ROSE.** See **FOGEL, MARIE**
- FELL, EGBERT H.** See **DAVIS, CARL, Jr.**
- FELLINGER, KARL, HÖFER, RUDOLPH, and VETTER, HERBERT:** Salivary and thyroidal radioiodide clearances of plasma in various states of thyroid function (ab), Feb., 309
- FELLOWSHIPS.** See Education
- FELSON, BENJAMIN.** See **HAWLEY, CHAPIN**
- See **WISOFF, CARL P.**
- FELTON, L. R.** See **REICH, STANLEY B.**
- See **SAMPSON, J. J.**
- FEMUR**
- fracture of femoral neck following irradiation of pelvis (ab), Edgar L. Ralston, May, 790
- method (Schultz-Edgren) of measuring torsion of femur in congenital dislocation of hip in children (ab), W. Edgren and L. E. Laurent, March, 456
- prognosis and early diagnosis of non-union of femoral neck fractures by laminography (ab), Norman Rosenberg et al, June, 902
- FENTON, RICHARD L.:** The naviculo-capitate fracture syndrome (ab), April, 613
- FENTON, WARD C.** See **SAWYER, KENNETH C.**
- FERGUSON, EDGAR A., Jr.** See **FEINBLATT, THEODORE M.**
- FERNÁNDEZ, MARTHA.** See **CICERO, RAÚL**
- FERRI, LUIGI.** See **BALDINI, GIOVANNI**
- FERRIS, EDWARD O., and WEBER, HARRY M.:** Evaluation of routine operative cholangiography (ab), June, 897
- FETUS**
- damage to intrauterine fetus by roentgen rays (ab), Merko Bašić and Danica Weber, Feb., 312
- occurrence of free gas in fetus in cases of intra-uterine death (ab), Olov Fr. Holm, Feb., 299
- FEVER**
- lymph node-fever relationship in lymphoma (ed), Don E. Matthiessen, May, 739
- FIBROMA.** See Tumors, fibroma
- FIBROSIS.** See Lungs, fibrosis
- FIBULA**
- fabella distalis: new sesamoid bone (ab), Josef Slanina, May, 784
- FIEBELKORN, HANS-JOACHIM.** See **SCHERER, EBERHARD**
- FIELDS, THEODORE, KINNORY, DAVID S., KAPLAN, ERVIN, OESTER, Y. T., and BOWSER, EVERETT N.:** Determination of protein-bound iodine<sup>131</sup> with anion exchange resin column (ab), March, 469
- FIGLEY, MELVIN M., NORDENSTRÖM, BJÖRN, STERN, AARON M., and SLOAN, HERBERT:** Angiocardiographic mixing defects as indicators of left to right shunts (ab), April, 603
- FILMS AND FILM BADGES.** See Roentgen Rays, films
- FILTERS.** See Roentgen Therapy
- FINBY, NATHANIEL.** See **MERTEN, CHARLES W.**
- See **STEINBERG, ISRAEL**
- FINDLEY, JOHN W., Jr., and THOMPSON, WILLIAM H.:** Multiple lipomas of the ileum (ab), Jan., 133
- FINGERS AND TOES**
- osteogenic sarcoma of phalanx after chronic roentgen irradiation (ab), Robert E. Carroll et al, June, 915
- FINKEL, ASHER J., and HATHAWAY, EARL A.:** Medical care of wounds contaminated with radioactive materials (ab), March, 476
- FINKLER, E.:** Kartagener's syndrome. A case report (ab), March, 460
- FISCHEDICK, O.:** Etiology and radiation treatment of the middle-lobe syndrome (ab), March, 463
- FISCHER, HARRY W.:** Colloidal stannic oxide. Animal studies on a new hepatolienographic agent, April, 488
- FISCHGOLD, H., METZGER, J., and JUSTER, M.:** Segmental radiography of the internal auditory canal in neurinomas of the eighth nerve (ab), May, 761
- FISHER, DON L.** See **FORD, WILLIAM B.**
- FISHMAN, ROBERT, and CITRIN, LESTER I.:** A new radium implant technique to reduce operating room exposure and increase accuracy of placement (ab), Jan., 150
- FISSEL, GEORGE E.:** Acute fulminating histoplasmosis (ab), June, 890
- FISTULA**
- few cases of glandular-bronchial fistula (ab), Armando Pinheiro and Fernando Outeiro, Jan., 127
- simple instrument for urethroscopy topography and fistulography in adults and children (ab), Åke Gullmo, April, 616
- arteriovenous**
- of posterior fossa in infant; case (ab), E. C. Schultz and William A. Huston, Jan., 121
- of renal vessels (caused by adenocarcinoma of kidney); case (ab), Jon R. Myhre, June, 903
- pulmonary arteriovenous aneurysm; 6 cases (ab), Ralph J. Schlosser and Henry N. Harkins, June, 893
- roentgenographic demonstration of arteriovenous fistula of renal vessels (ab), Anthony P. Garritano et al, March, 444
- successful resections for bilateral pulmonary arteriovenous fistulas (ab), Harold A. Lyons and Edgar P. Mannix, Jr., March, 444
- biliary**
- internal biliary fistulas (ab), Oriol Arango and Augusto Marmolejo, Feb., 294
- branchial**
- branchiogenic intrathoracic mediastinothymic cyst (ab), Z. V. Skokan and J. Stolz, May, 767
- renoduodenal**
- spontaneous renoduodenal fistula (ab), John P. North et al, April, 609
- tracheoesophageal**
- congenital tracheoesophageal fistula without atresia of esophagus (ab), Richard Koch and John M. Clark, April, 606
- uretero-appendicular**
- roentgenologic findings in uretero-appendicular fistula (ab), Emo Bianchi, Jan., 141
- FLATMAN, G. E., and ELLIS, R. E.:** A report on the use of convergent beam x-ray therapy (ab), Jan., 148
- FLEISCHNER, FELIX G.** See **FRANK, HOWARD A.**
- FLOCKS, W. H.:** Treatment of urethral tumors (ab), Jan., 146
- FLUOROSCOPY.** See Roentgen Rays, fluoroscopy
- FLY, ORCENETH A., Jr., MACCARTY, COLLIN S., GAGE, ROBERT P., MACKINNON, HECTOR N., and JONES, PETER H.:** Controlled study of cortisone therapy for headache after pneumoencephalography (ab), April, 600
- FLYNN, ROBERT E.** See **KERR, H. DABNEY**
- FOLDI, R.** See **GERGELY, R.**
- FOGEL, MARIE, and FEJER, ROSE:** Hyperostosis generalisata (ab), Jan., 138
- FORAMEN**
- intervertebral. See Spine
- Morgagni's. See Hernia, diaphragmatic
- FORD, A. B.** See **MOIR, T. W.**
- FORD, WILLIAM B., KENT, EDWARD M., NEVILLE, JOHN F., Jr., and FISHER, DON L.:** "Coin" lesions of the lung (ab), Jan., 125
- FOREMAN, JOSEPH.** See **ISARD, HAROLD J.**
- FORREST, A. P. M., PEEBLES BROWN, D. A., MORRIS, SASHA R., and ILLINGWORTH, C. F. W.:** Pituitary radon implant for advanced cancer (ab), March, 462
- FOSSA, POSTERIOR.** See Brain
- FOUSEK, MILDRED D.** See **GREEN, MORRIS**
- FOWLER, FRED D., ALEXANDER, EBEN, Jr., and DAVIS, COURTLAND H., Jr.:** Pinealoma with metastases in the central nervous system. A rationale of treatment (ab), March, 462
- FRACTURES**
- See also under names of bones
- clinical and roentgen aspects of fracture cases (ab), R. Patry and S. Gueukdjian, March, 452
- FRÄNKEL, M.** See **SCHÖRR, S.**
- FRANCHI, B.:** Radiological signs of congenital subluxation of the hip, with description of a new sign (ab), Jan., 140
- FRANCKE, WALTER:** Roentgenologic findings of small intestine in 100 repatriated prisoners of war. Deficiency states and worm infestations (ab), May, 773
- FRANCO, VICTOR H., and QUINA, MARIO G.:** Pneumothoroid: a new procedure for determining the mass of the thyroid gland for the radioiodine treatment of hyperthyroidism (ab), June, 912
- FRANK, HOWARD A., REINER, LEOPOLD, and FLEISCHNER, FELIX G.:** Co-occurrence of large leiomyoma of the esophagus and squamous-cell carcinoma of the thymus. Report of a case, with roentgenologic, pathological and clinical discussion (ab), May, 772
- FRANKSSON, C., LINDBLOM, K., and WHITEHOUSE, W.:** Reliability of roentgen signs of varying degrees of malignancy of bladder tumors (ab), Feb., 301
- FRANTZ, CHARLES H.** See **WILSE, LEON L.**
- FRASER, ELEANOR R.** See **ENGLE, ROBERT B.**
- FREEDLAND, MORRIS E.:** Multiple myeloma. A case diagnosed without x-ray evidence of bone lesions (ab), March, 452
- FREEDMAN LECTURES,** University of Cincinnati, March, 426
- FREEMAN, V.** See **BRETT, G. Z.**
- FREID, J. R.** See **NETSKY, MARTIN G.**
- FREY, JULIUS.** See **BIRKNER, RUDOLPH**
- FRICKE, ROBERT E., and DECKER, DAVID G.:** Intensive divided-dose irradiation therapy of carcinoma of the uterine cervix: rationale and late results (ab), Feb., 304
- FRIED, L.:** Evaluation of the cystic duct stump in intravenous cholangiography (ab), May, 775
- FRIEDMAN, H.** See **KING, P.**
- FRIEDMAN, MILTON, and PEARLMAN, ALEXANDER W.:** Irradiation of advanced cancer of the head and neck through a grid. Part I. Study of absorbed dose by observation of skin and mucosal reactions, June, 852
- FRIEDMAN-BAROU, HANNAH.** See **SALINGER, HANS**
- FRIEDMANN, ASA B.:** Diverticula of the appendix. Case report, Jan., 86
- See **BELL, ROBERT L.**
- FRIGYESI, GY.:** Cherubism—familial fibrous dysplasia of the jaws (ab), March, 436
- FRISCHKORN, HUNTER B., Jr.:** Roentgenographic behavior of the ureter (ab), March, 458

- FRITZ-NIGGLI, HEDI:** Professional radiation injuries in medical practice (ab), Jan., 153
- FROST, THOMAS T.** See **SUSSMAN, MARCY L.**
- FROWEIN, R.:** Angiographic findings in cerebral vascular disease and their relationship to clinical syndromes (ab), May, 756
- FULLENLOVE, TOM M., and WILLIAMS, A. JUSTIN:** Comparative roentgen findings in symptomatic and asymptomatic backs, April, 572
- FULLER, DENIS:** Carcinoma of the oesophagus and gastric cardia (ab), June, 908
- FULLER, JOHN B., CHEN, IRENE, LAUGHLIN, JOHN S., and HARVEY, ROGER A.:** Comparison of biological effects of whole-body irradiation with 22.5-Mev x-rays, 18-Mev electrons, and 400-Kev x-rays in the rat (ab), Feb., 315
- See **MOOS, W. S.**
- FURSTE, WESLEY, and AYRES, PERRY R.:** Acute intermittent porphyria with acute abdominal findings and palpable mass (ab), Feb., 302
- FURTH, JACOB, and TULLIS, JOHN L.:** Carcinogenesis of radioactive substances (ab), May, 791
- G**
- GAEBEL, E.:** The negative or faint (weak contrast) cholecystogram and the diagnosis of cholecystitis (ab), Jan., 134
- GAGE, ROBERT P.** See **FLY, ORCENETH, A., Jr.**
- GAINES, L. M., Jr.** See **MANDEL, WILLIAM**
- GALAMBOS, JOHN T., and KIRSNER, JOSEPH B.:** Tubeless gastric analysis in the study of acid secretion following gastric irradiation for peptic ulcer (ab), Feb., 306
- GALE, GODFREY L., and GIFFIN, R. H.:** Pneumoperitoneum in the diagnosis of pelvic disease (ab), Jan., 141
- GALIBERT, P.** See **LAINE, E.**
- GALLBLADDER**  
See also Biliary Tract calculi
- biliary tract studies. I. X-ray diffraction analysis of gallstones; correlation with occurrence of microspherulites in bile (ab), Kerrison Juniper, Jr., and William E. Woolf, Jan., 134
  - experiences with diagnostic angiocholegraphy and "peroperative radionuclimetry" in cholelithiasis (ab), A. Ritter and H. Helmig, March, 450
- diseases**
- acute emphysematous cholecystitis (ab), J. Kenneth Jacobs, March, 449
  - acute pneumocholecystitis (ab), Carl J. Heifetz, Jan., 134
  - acute pneumocholecystitis; review of literature and report of case (ab), Edward G. LaCour and Lawrence J. O'Neil, April, 610
  - negative or faint (weak contrast) cholecystogram and diagnosis of cholecystitis (ab), E. Gaebel, Jan., 134
  - volumetric findings in emptying test in non-calculous cholecystopathies (ab), C. Wieser, March, 450
- diverticula**
- cholecystographic visualization of Rokitsansky-Aschoff sinuses; report of case and review of literature (ab), Robert D. Waller and S. M. Roberts, April, 609
- excision.** See Bile Ducts; Biliary Tract
- roentgenography.** See also Biliary Tract, roentgenography; other subheads under Gallbladder
- basic combined cholecystangiography (ab), David J. Mitchell, Jan., 136
  - cholecystography and cholangiography; review of present methods of examination (ab), Noel H. Aldridge, April, 609
  - cholecystography during lactation (ab), Kaj H. Holmdahl, Feb., 295
  - cholegraphic signs of acute biliary stasis (ab), Georg Theander, April, 610
  - combined intravenous cholecystography and pyelography (with simultaneous administration of Bilagrafin and Diodone) (ab), N. H. Aldridge, Jan., 143
  - comparative study of newer contrast media (Teridax, Telepaque, and Cholografin) used in cholecystography and cholangiography (ab), Carl P. Wisoff and Benjamin Felson, May, 774
  - comparison of rapid intravenously and orally administered contrast mediums for routine gallbladder study (ab), V. Kremens et al, Feb., 294
  - delayed visualization of gallbladder due to gastric retention (ab), S. A. Lender, May, 774
  - evaluation of oral cholecystography in liver disease (ab), William Mandel et al, Jan., 134
  - heterotropic excretion of intravenously injected contrast media, Julian Arendt and Adam Zgoda, Feb., 238
  - intravenous cholecystocholangiography in emergency abdominal diagnosis (ab), Robert S. Sparkman and Paul R. Ellis, March, 450
  - new techniques (ab), L. Henry Garland, May, 774
  - positional relation of gallbladder to hepatic flexure (ab), Harold G. Jacobson et al, May, 773
  - radiographic demonstration of choledochal cyst by oral cholecystography, John E. Moseley, June, 849
  - re-evaluation of fat-free preparatory meal in Telepaque cholecystography (ab), Walter M. Whitehouse, May, 775
  - visualization of bile ducts in cholegraphy (ab), Georg Theander, March, 450
  - visualization of renal pelvis in cholegraph (ab), Georg Theander, Feb., 295
- GALLIUM.** See Radioactivity, radiogallium
- GAMBACCINI, P.:** Radiation combined with surgery in the treatment of rectal neoplasms in various stages (ab), Jan., 145
- GAMBLE, DEAN.** See **MOORE, VINCENT**
- GAMMA RAYS.** See Dosimeters and Dosimetry; Radioactivity
- GANEM, EMIL J., WALLWORK, DAVID W., and WEST, GEORGE V.:** Anterior displacement of the descending duodenum as an aid in the diagnosis of retroperitoneal tumor: a roentgenographic sign of possible significance in some cases of enlargement of the right adrenal gland (ab), Jan., 132
- GARCÍA, JOHN, KIMELDORF, DONALD J., and HUNT, E. L.:** Conditioned responses to manipulative procedures resulting from exposure to gamma radiation (ab), May, 795
- GARCÍA CASTAÑEDA, MÁXIMO, BALANZARIO, ISAÍAS, MACÍAS, BENJAMÍN, MARTÍNEZ FABRE, CARLOS, and ZARKIN T. MOISÉS:** Radiological anatomy of the temporal bone (ab), June, 885
- GARDINI, GIOVANNI F., and BETTI, ROBERTO:** The radiologist facing evident and latent thymic hypertrophy (ab), June, 910
- GARDNER, FRANK H.:** A malabsorption syndrome in military personnel in Puerto Rico (ab), 772
- See **RODRIGUEZ, HECTOR F.**
- GARDNER, W. JAMES, TODD, EDWIN M., and PINTO, J. PORTUGAL:** Roentgenographic findings in trigeminal neuralgia (ab), June, 895
- GARLAND, L. HENRY:** New techniques in cholecystography (ab), May, 774
- Treatment of cancer of the thyroid gland (ab), April, 618
- GARRITANO, ANTHONY P., WOHL, GEORGE T., KIRBY, CHARLES K., and PIETROLUONGO, ANTHONY L.:** Roentgenographic demonstration of an arteriovenous fistula of renal vessels (ab), March, 444
- GARY, JOHN E.:** Late follow-up study of radiologic changes after mitral valvuloplasty (ab), March, 441
- GASPAR, MAX R.** See **KENDIG, TOM A.**
- GASSTER, MARVIN.** See **HALSTED, JAMES A.**
- GASTRECTOMY.** See Stomach, surgery
- GASTRITIS.** See Stomach
- GASTROINTESTINAL TRACT**  
See also Colon; Intestines; Stomach; etc.
- roentgen findings due to untoward effects of hexamethonium, Irving K. Ettman, C. D. Bouchillon and H. H. Halford, May, 673
  - teaching aids for instruction in radiologic study of gastrointestinal tract (ab), H. R. Osheroff, April, 610
  - timed-disintegration capsules; in vivo roentgenographic study (ab), Theodore M. Feinblatt and Edgar A. Ferguson, Jr., March, 460
- cancer**
- clinical aspects of treatment of carcinomas with isotopes (ab), Josef Becker and Kurt E. Scheer, June, 913
- GASUL, B. M.** See **DAVIS, CARL, Jr.**
- GAULDEN, E. C.** See **BRISTOW, J. D.**
- GEIGER COUNTER.** See Counters
- GEISELSODER, J. L.** See **NIMS, L. F.**
- GENERAL PRACTICE**  
—radiation protection for general practitioner (ab), Lauriston S. Taylor, June, 916
- GENERATOR (2-MEV Van de Graaff).** See Roentgen Therapy
- GENES.** See Heredity
- GENSINI, GOFFREDO.** See **BLOUNT, S. GILBERT, Jr.**
- GERGELY, R., ZSEBÖK, Z., and FÖLDI, M.:** Diagnostic possibilities of lymphangiography (ab), June, 906
- GERRITS, J. C.:** Coin lesions (ab), May, 764
- GERSHBEIN, LEON L.:** X-irradiation and liver regeneration in partial hepatectomized rats (ab), April, 635
- GERSHON-COHEN, J., INGLEBY, HELEN, and MOORE, LOLITA:** Can mass x-ray surveys be used in detection of early cancer of the breast? (ab), May, 771
- See **BUDIN, EARL**
- GERSTNER, HERBERT B.** See **BROOKS, PHILLIPS M.**
- GETZ, S. H.** See **COPE, E.**
- GIBBS, JONATHAN C., Jr.** See **HALLIGAN, EARL J.**
- GIESELMAN, RALPH V., COLLODI, GEORGE A., and PARK-HILL, URIE A.:** Transverse colon in a right inguinal hernia with a confusing distortion of the stomach (ab), Feb., 292
- GIFFIN, R. H.** See **GALE, GODFREY L.**
- GILBERTSON, EVA L., and GOOD, C. ALLEN:** Roentgenographic signs of tumors of the brain (ab), June, 884
- GILMORE, JOHN H.** See **SOTEROPOULOS, C.**
- GIMLETTE, T. M. D.** See **HICKIE, JOHN B.**
- GIRDANY, B., and DANOWSKI, T. S.:** Muscular dystrophy. II. Radiologic findings in relation to severity of disease (ab), Feb., 295
- GLASSMAN, IRVING, SHAPIRO, ROBERT, and ROBINSON, FRANKLIN:** Air embolism during presacral pneumography: a case report (ab), Jan., 143
- GLAZER, NORMAN M.** See **SLADE, HARRY W.**
- GLIOBLASTOMA.** See Brain, tumors
- GLIOMA.** See Brain, tumors
- GLOVER, ROBERT P.** See **JANTON, O. HENRY**

- GLYCINE.** See Radioactivity, radioglycine
- GOADE, WILLIAM J., Jr.** See CLARKE, B. G.
- GODDARD, WILLIAM B.** See RANDALL, JOHN H.
- GODWIN, JOHN T.** See CARROLL, ROBERT E.
- GÖBEL, BRUNO.** See SCHERER, EBERHARD
- GOETZ, A. A.** See SAMPSON, J. J.
- GOIN, LOWELL S.:** Science and solitude vs. clinical consultation. The Carman lecture, March, 319
- GOITER.** See Thyroid
- GOLD.** See Radioactivity, radiogold
- GOLDBERG, GIL M.** See SALTZ, NATHAN J.
- GOLDBERG, H. M., and SMITH, VERNON H.:** Acute volvulus of the stomach (ab), March, 447
- GOLDBERG HARRY.** See DOWNING, DANIEL F.
- GOLDBERG, M. E.** See FEINBERG, S. B.
- GOLDBERG, ROBERT F.** See HAMWI, GEORGE J.
- GOLDEN, R.** See SHUMWAY, B. W.
- See TOCHILIN, E.
- GOLDEN, ROSS:** Contribution of radiologic methods of examination to the detection of organic disease of the small intestine (ab), March, 448
- GOLDFEDER, ANNA.** See MOLLURA, JOSEPH L.
- GOLDGRABER, MOSHE B.:** Response of esophageal cancer to irradiation. A serial cytologic study of two cases (ab), Feb., 302
- GOLDIE, HORACE, and WEST, HAROLD D.:** Effect of peritumoral tissue infiltration with radioactive yttrium on growth and spread of malignant cells (ab), May, 790
- GOLDIN, RALPH R., and SILVER, MAURICE L.:** Ophthalmic artery aneurysm, May, 727
- GOLTHAMER, CHARLES T.:** Duplication of the clavicle ("os subclaviculare"), April, 576
- GÓMEZ, ZALDIVAR, RAFAEL.** See FARIÑAS, LAURA
- GOOD, C. ALLEN.** See GILBERTSON, EVA L.
- GOTT, VINCENT L., LESTER, RICHARD G., LILLEHEI, C. WALTON, and VARCO, RICHARD L.:** Total anomalous pulmonary return. An analysis of thirty cases (ab), Feb., 288
- GOULD, DAVID M.** See DAVES, MARVIN L.
- See WINSTEN, JOSEPH
- GRAHAM, EVARTS A. (obit),** May, 747
- GRAHAM, JOHN B.:** Treatment of choice in cancer of the uterine corpus (ab), April, 620
- GRAHN, DOUGLAS, SACHER, GEORGE A., and WALTON, HOWARD, Jr.:** Comparative effectiveness of several x-ray qualities for acute lethality in mice and rabbits (ab), March, 474
- GRANULOMA**
- circumscribed pulmonary lesions in periarteritis nodosa and Wegener's granulomatosis (ab), James V. Rogers, Jr., and Albert E. Roberto, May, 765
- granuloma of neck following Thorotrast angiography (ab) Laurence F. Levy, March, 436
- eosinophilic. See Bones, tumors
- GRANULOMATOSIS.** See Granuloma
- GRANULOSA-CELL TUMORS.** See Ovary, tumors
- GRAVES, F. T.:** Anatomy of the intrarenal arteries in health and disease (ab), March, 457
- GRAVES' DISEASE.** See Thyroid
- GREEN, B., and SOWERBUTTS, J. G.:** A comparative study of the value of sodium acetate (Diagnol) 50 per cent and sodium diatrizoate (Hypaque) 45 per cent in intravenous urography (ab), Jan., 142
- GREEN, MORRIS, NYHAN, WILLIAM L., Jr., and FOUSEK, MILDRED D.:** Acute hematogenous osteomyelitis (ab), Jan., 138
- GREEN, ROBERT A.** See STONE, DANIEL J.
- GREENE, D., and TRANTER, F. W.:** Dosage data for 4,000,000 volt x-rays (ab), Feb., 308
- GREENE, RAYMOND.** See ABBATT, JOHN D.
- GREENSPAN, R. H., and FEINBERG, S. B.:** Salmonella bacteremia: A case with milary lung lesions and spondylitis, June, 860
- GREGORY, C.** See JONES, D. E. A.
- GREITZ, TORGNY:** Rapid serial angiography (ab), June, 882
- GRETENER, ADOLPH J.:** Lymphosarcoma: clinical picture, therapy, and prognosis. Experiences of the Department of Radiation Therapy of the University of Zürich from 1936 to 1951 (ab), Jan., 147
- GREULICH, RICHARD C.:** An autoradiographic study of organically bound carbon-14 in growing epiphyseal cartilage and bone (ab), April, 632
- GRID THERAPY.** See Bronchi, cancer; Cancer, radiotherapy; Neck
- GRIECO, R. VINCENT.** See BARTONE, NOEL F.
- See HALLIGAN, EARL J.
- GRIMSON, K. S.** See MARGOLIS, G.
- GRISHMAN, ARTHUR.** See WACHTEL, FRED W.
- GROS, J.:** Grooved atrophy of the parietal bone (ab), June, 885
- GROSS, ROBERT E.** See SHWACHMAN, HARRY
- GROVES, H. J.** See REYNOLDS, D. F.
- GROVES, LAURENCE K., and EFFLER, DONALD B.:** Broncholithiasis. A review of twenty-seven cases (ab), Jan., 128
- GROWTH.** See Bones, growth
- GRUCCI, T.** See CEMBER, H.
- GUARESCHI, BRUNO.** See DI SIENO, ANTONIO
- GÜBLER, C. J.** See BUSH, J. A.
- GUEUKDJIAN, S.** See PATRY, R.
- GUILD, WARREN.** See LOONEY, W. B.
- GULLMO, AKE:** A simple instrument for urethrocytography and fistulography in adults and children (ab), April, 616
- GUM, JANE H.** See LANIER, RAYMOND R.
- GUNDERSEN, GUNNAR A., and NICE, CHARLES M., Jr.:** Nocardiosis. Case report and brief review of the literature, Jan., 31
- GUNNARSON, ERIC:** The bile ducts of cholecystectomized patients with and without dyskinesia before and after morphine injection. A preliminary report (ab), Feb., 294
- GUNNING, A. J.** See ROSSALL, R. E.
- GUPTA, K. GOPALAKRISHNIAH.** See REDDY, D. J.
- GURDJIAN, E. S.** See WEBSTER, J. E.
- GUSTAFSON, P. F., MARINELLI, L. D., and HATHAWAY, E. A.:** A case of accidental puncture contaminated with  $^{137}\text{Cs}$ . Studies on elimination and residual body activity, March, 358
- GUTTMANN, RUTH J.:** Two million volt irradiation therapy for inoperable carcinoma of the lung (ab), Feb., 303
- GVOZDANOVIC, V.:** Changes in the superficial veins in cases of intracranial expanding processes (ab), May, 757
- GYNECOLOGY.** See Fallopian Tubes; Pelvis, blood supply; Uterus
- H**
- HABEIN, HAROLD C., Jr., MOERSCH, HERMAN J., and KIRKLIN, JOHN W.:** Diverticula of the lower part of the esophagus. A clinical study of one hundred forty-nine nonsurgical cases (ab), April, 607
- HACKENTHAL, H., and RUBE, W.:** Changes in the endotracheal organs due to positioning of the patient (ab), March, 436
- HAGEE, G. R.** See ANTHONY, D. S.
- HAGEN, P. S.** See AMATUZZO, D. S.
- HAGGARD, MARY E.** See ROWE, CAROLINE W.
- HAHN, P. F., JACKSON, ANDREW H., STAGGERS, FRANK E., JACKSON, MARVIN A., and CAROTHERS, E. L.:** Acute radiation death of dogs receiving a single massive dose of intravenous radioactive gold (ab), April, 629
- HAIGH, MARY V., and PATERSON, EDITH:** Effects of a single session of whole body irradiation in the Rhesus monkey (ab), Jan., 154
- HAIR**
- perifolliculitis capitis abscedens et suffodiens: its successful treatment with x-ray epilation (ab), Francis H. McMullan and Israel Zeligman, May, 787
- HAJDU, H., HARRIS, M., and RAMSAY, GORDON S.:** Closed loop obstruction of the afferent limb. A late complication of antecolic partial gastrectomy (ab), June, 895
- HALE, BRIAN C.:** Hypaque in intravenous pyelography. An analysis of 50 controlled examinations comparing Hypaque with 50 per cent Diodone (ab), Jan., 142
- HALE, WILLIAM M.** See WILLIAMS, WILLIAM L.
- HALFORD, H. H.** See EITMAN, IRVING K.
- HALL, CHARLES A., and OLSON, KENNETH B.:** Therapy of malignant lymphomas. I. A study of 116 cases. II. A review (ab), Jan., 147
- HALLIGAN, EARL J., and BABER, JULIUS J.:** The clinical significance of air and barium in the biliary tract (ab), June, 897
- GIBBS, JONATHAN C., Jr., GRIECO, R. VINCENT, and McKEOWN, JAMES E.: An evaluation of peripheral arteriosclerotic insufficiency utilizing radioactive iodinated human serum albumin (ab), March, 468
- HALNAN, K. E.** See HILTON, GWEN
- HALSTED, JAMES A., LEWIS, PETER M., HVALBOLL, ELIZABETH E., GASTER, MARVIN, and SWENDSEID, MARIAN E.:** An evaluation of the fecal recovery method for determining intestinal absorption of cobalt<sup>60</sup>-labeled vitamin B<sub>12</sub> (ab), May, 790
- HAMARTOMA.** See Tumors, hamartoma
- HAMBY, WALLACE B.:** Surgical treatment of intracranial aneurysms. Results in angiographically located lesions (ab), Feb., 278
- HAMILTON, JOSEPH G.** See DURBIN, PATRICIA W.
- HAMMAN-RICH SYNDROME.** See Lungs, fibrosis
- HAMMER, RAYMOND W.** See SAWYER, KENNETH C.
- HAMMOND, CAROLYN W., and MILLER, C. PHILLIP:** Incidence of endogenous bacteremia in x-irradiated rabbits (ab), Feb., 315
- HAMWI, GEORGE J., and GOLDBERG, ROBERT F.:** Modern treatment of thyrotoxicosis (ab), Feb., 311
- HAND**
- See also Fingers and Toes
- interdigital sinuses in barber's hand (ab), H. D. W. Powell, Jan., 140
- HANELIN, JOSEPH, and BAKAY, LOUIS:** Encephalography of sellar and parasellar tumors, with particular reference to the anteroposterior projection and olfactory sulci (ab), May, 754
- HANKAMP, LAMAR J.:** Calcification of the myocardium. Case report, April, 564
- HANNON, DONALD W.** See LEVY, LOUIS M.
- HARKINS, HENRY N.** See SCHLOSSER, RALPH J.

- HARPER, PAUL V., LATHROP, KATHERINE A., HARRISON, ROBERT W., THURSTON, CONRAD G., KENNEDY, THELMA T. and MULLAN, JOHN F.:** Isotope implant therapy for internally situated tumors (ab), May, 787
- HARRIS, D. C.** See **KAY, R. E.**
- HARRIS, M. A.** See **HAJDU, N.**
- HARRISON, GUNYON H.** See **SINGLETON, EDWARD B.**
- HARRISON, M. C., and MACNAB, IAN:** Hidden anvil fracture of the seventh cervical vertebral body (ab), March, 454
- HARRISON, RICHARD H., III, and DOUBLEDAY, LEONARD C.:** Roentgenological appearance of normal adrenal glands (ab), June, 905
- HARRISON, ROBERT W.** See **HARPER, PAUL V.**
- HARROLD, A. J.:** Alkaptonuric arthritis (ab), March, 452
- HART, HIRAM E.** See **SIEGEL, ELSIE P.**
- HARTMANN, H.** See **KEISER, G.**
- HARVEY, ROGER A.** See **FULLER, JOHN B.**
- See **MOOS, W. S.**
- HARVEY, W. PROCTOR.** See **SCHILDER, DONALD P.**
- HASTREITER, ALOIS R.** See **HOFFMAN, HOWARD A.**
- HATCH, T. F.** See **CEMBER, H.**
- HATHAWAY, E. A.** See **FINKEL, ASHER J.**
- See **GUSTAFSON, P. F.**
- HAUGE, TORMOD:** Atrophy within the brain stem area following injection of Thorotrast into the vertebral artery. Report of case (ab), June, 883
- HAVINGA, JAN.** See **KLIGERMAN, MORTON M.**
- HAWLEY, CHAPIN, and FELSON, BENJAMIN:** Roentgen aspects of intrathoracic blastomycosis (ab), Feb., 284
- HAYDEN, GLEN E.:** Carcinoma of the cervix associated with pregnancy (ab), Feb., 304
- HAYES, THOMAS L.** See **HEWITT, JOHN E.**
- HAYNE, ROBERT A., KEMPE, LUDWIG G., and COXE, WILLIAM:** Surgical treatment of arteriovenous malformations of the brain (ab), March, 435
- HAYS, ROBERT A.** See **MEANEY, THOMAS F.**
- HEAD**  
See also **Brain; Cranium**  
—cranial immobilization device for use in roentgen therapy, Bernard Roswit, Cyprian B. Reid and Stanley J. Malaky, March, 419  
—immobilization of head during rotational x-ray therapy, Harry L. Berman, April, 579  
—irradiation of advanced cancer of head and neck through a grid. I. Study of absorbed dose by observation of skin and mucosal reactions, Milton Friedman and Alexander W. Pearlman, June, 852
- HEADACHE**  
—controlled study of cortisone therapy for headache after pneumoencephalography (ab), Orceneth A. Fly, Jr., et al, April, 600  
—from subluxations of cervical articulations (ab), Ákos Kovács, June, 887
- HEALY, J. W.:** Calculation of maximum permissible concentrations for long-lived radioisotopes (ab), April, 626
- HEART**  
See also **Cardiovascular System; Thrombosis**  
—in vivo method for determination of cardiac output, Robert E. Mack, Herschel J. Wells and Robert Pollack, Feb., 245  
—isotope studies of blood flow and blood cells (studied by radiocardiography) (ab), Edith H. Quimby, April, 624
- abnormalities.** See also **Ductus Arteriosus; Heart, displacement**  
—absence of left pulmonary artery in Fallot's tetralogy (ab), Richard W. Emanuel and J. Norman Pattinson, May, 769  
—angiocardigraphic mixing defects as indicators of left to right shunts (ab), Melvin M. Figley et al, April, 603  
—cardiac septal defects. I. Ventricular septal defect; analysis of 100 cases studied during life. II. Atrial septal defect; analysis of 100 cases studied during life (ab), Danie F. Downing and Harry Goldberg, March, 439  
—combined tricuspid and pulmonary atresia with juxtaposition of auricles (ab), A. M. Stewart and A. Wynn-Williams, April, 605  
—diagnosis of congenital heart disease in infants by catheterization and selective angiocardiology (ab), Ib Boesen et al, May, 768  
—evaluation of the roentgen manifestations of isolated ventricular septal defect, Theodore E. Keats, Van Allen Kreis and Ellen Simpson, Jan., 9  
—persistent ostium primum atrial septal defect (ab), S. Gilbert Blount, Jr., et al, Feb., 287  
—radiologic aspects of operable heart disease. III. Hazards of retrograde thoracic aortography: survey, Herbert L. Abrams, June, 812
- calcification.** See **Heart, infarction**
- catheterization.** See **Heart, abnormalities**
- diseases**  
—basal horizontal lines on chest radiographs: significance in heart disease (ab), R. E. Rossall and A. J. Gunning, April, 603  
—relation of pectus excavatum to heart disease (ab), Fred W. Wachtel et al, May, 769  
—secondary vascular changes in lungs (ab), Marcy L. Sussman and Thomas T. Frost, Feb., 281
- displacement**  
—dextroposition of heart simulating congenital dextrocardia (ab), Werner J. Hollendonner and Bernard H. Pastor, Feb., 287
- infarction**  
—calcification of myocardium; case, LaMar J. Hankamp, April, 564  
—clearance of radioactive iodine from lower extremities of patients with myocardial infarction (ab), Franz K. Bauer et al, May, 788  
—portable serial roentgenkymography in acute myocardial infarction (ab), J. J. Sampson, et al, March, 440
- insufficiency**  
—radiology of lung in left heart failure (ab), D. S. Short, Feb., 287
- rate**  
—blood pressure and heart rate during angiocardiology, abdominal aortography, and arteriography of lower extremities (ab), A. K. Amundsen et al, April, 604
- roentgenography.** See also other subheads under **Heart**  
—angiocardigraphic observations of intracardiac flow in the normal and in mitral stenosis (ab), Louis A. Soloff et al, Jan., 128  
—in vivo visualization of intracardiac structures with gaseous carbon dioxide; cardiovascular-respiratory effects and associated changes in blood chemistry (ab), M. J. Oppenheimer, June, 893  
—intracardiac angiography: controlled instantaneous intratrial release of contrast material in man (ab), Bernard L. Brofman, May, 767  
—systolic expansion or aorto-diastolic displacement. Roentgenkymographic study of left atrial movements in mitral cardiopathy (ab), F. Dalith, Jan., 128
- surgery.** See **Mitral Valve**
- valves.** See **Aortic Valve; Mitral Valve; Pulmonary Valve; Tricuspid Valve**
- HEAT**  
—similarities in killing by heat and by x-radiation in insect *Dahlbominus fuscipennis* (Zett.), William F. Baldwin, May, 796
- HEATH, DONALD.** See **BROWN, JAMES W.**
- HECHTER, H. H.** See **BOND, V. P.**
- HECK, CHARLES V.:** Hoarseness and painful deglutition due to massive cervical exostoses (ab), April, 600
- HEIFETZ, CARL J.:** Acute pneumocholycystitis (ab), Jan., 134
- HEITE, H.-J., and NICOLAI, K. H.:** A method of measuring the tissue-damaging action of x-rays (ab), May, 793
- See **CERTA, H.**
- HELANDER, C. G., and LINDBOM, Å.:** Roentgen examination of the inferior vena cava in retroperitoneal expanding processes (ab), Feb., 288
- HELGASON, SKULI.** See **LEE, JOHN C.**
- HELMICK, MARIE.** See **LOONEY, W. B.**
- HELMIG, H.** See **ITTER, A.**
- HEMANGIOBLASTOMA.** See **Tumors, angioma**
- HEMANGIOMA.** See **Tumors, angioma**
- HEMATOMA.** See **Brain; Pleura**
- HEMOPOIETIC SYSTEM**  
See also **Bones, marrow; Spleen**  
—efficacy of hematopoietic protective procedures in rats x-irradiated with intestine shielded (ab), Marguerite N. Swift et al, March, 474  
—radioactive iron studies in routine hematological practice (ab), G. Wetherley-Mein et al, April, 631
- HEMOsiderosis**  
—recurrent pulmonary hemorrhage with hemosiderosis: so-called idiopathic pulmonary hemosiderosis (ab), André J. Bruwer et al, May, 766
- HENDERSON, W. J.** See **MOOS, W. S.**
- HENDRICK, JAMES W.:** Treatment of cancer of the nasal cavity and paranasal sinuses (ab), Jan., 143
- HENSCHKE, ULRICH K.:** A technic for permanent implantation of radioisotopes, Feb., 256
- HENSLEY, NESTOR M., and CLEVE, EDWARD A.:** Chronic benign residuals of coccidioidomycosis (ab), May, 765
- HENZI, HAROLD:** Pathological anatomy of the changes involving the pulmonary parenchyma after high doses of x-rays (ab), June, 915
- HEPATIC DUCTS.** See **Bile Ducts**
- HERBEUVAL, R., and DEBRY, G.:** Experimental staphylococci bullous pneumopathy (ab), May, 767
- HEREDITY**  
See also **Familial Conditions**  
—genetic speculation based upon animal experimentation in relation to actual human experiences, in treatment of female infertility and sterility by x-ray therapy (ab), Ira I. Kaplan, April, 633  
—genetically significant radiation dose from diagnostic use of x-rays in England and Wales: preliminary survey (ab), S. B. Osborn and E. E. Smith, May, 793  
—indirect induction of lymphomas in irradiated mice. IV. Genetic evidence of origin of tumor cells from thymic grafts (ab), Henry S. Kaplan et al, May, 795
- HERNIA**  
See also **Brain, herniation**
- diaphragmatic**  
—acquired hiatus hernia (ab), Costantino Zaino and Maxwell H. Poppel, March, 451  
—compound diaphragmatic hernia; 5 cases (ab), Charles H. Brown et al, Jan., 137  
—partial obstruction of inferior vena cava by herniation of liver through foramen of Morgagni; case, David Rosenblum, Arnold Nussbaum and Solomon Schwartz, March, 399

**HERNIA, diaphragmatic—cont.**

—radiologic diagnosis of hiatus hernia (ab), Leslie K. Symamore, June, 894

**inguinal**

—transverse colon in right inguinal hernia with confusing distortion of stomach (ab), Ralph V. Gieselman et al, Feb., 292

**HERPE, DANIEL.** See **DUHAMEL, JOSEPH**

**HERSON, RONALD E.:** Meconium ileus, April, 568

**HEWER, T. F.:** Histological diagnosis of undifferentiated tumours in bone (ab), Feb., 302

**HEWITT, JOHN E., and HAYES, THOMAS L.:** X-irradiation and lipoprotein metabolism in various species (ab), April, 636

**HEXAMETHONIUM**

—gastrointestinal roentgen findings due to untoward effects of hexamethonium, Irving K. Ettman, C. D. Bouchillon and H. H. Halford, May, 673

**HICKIE, JOHN B., GIMLETTE, T. M. D., and BACON, A. P. C.:** Anomalous pulmonary venous drainage (ab), May, 769

**HICKS, SAMUEL P., WRIGHT, KENNETH A., and LEIGH, KENNETH E.:** Time-intensity factors in radiation response. I. The acute effects of megavolt electrons (cathode rays) and high- and low-energy x-rays with special reference to the brain (ab), Jan., 154

**HILL, M. J.** See **WETHERLEY-MEIN, G.**

**HILTON, GWEN, POCHIN, E. E., CUNNINGHAM, R. M., and HALMAN, K. E.:** Role of radioiodine in the treatment of carcinoma of the thyroid (ab), April, 627

—See **SMART, JOSEPH**

**HINKEL, C. L., and SANTINI, L. C.:** Polycystic disease of the kidney in infants. Nephrograms following intravenous urography (ab), May, 784

**HINKEL, CHARLES L. (obit),** Feb., 272

**HIP**

—See also **Femur**

—arterial disease as cause of pain in buttock and thigh (ab), George Bonney, June, 893

—osteoid osteoma of ischium with hip joint complications (ab), F. G. Stuart, April, 613

**dislocation**

—contradiction of congenital dysplasia-predislocation hypothesis of congenital dislocation of hip through study of normal variation in acetabular angles at successive periods in infancy (ab), John Caffey et al, March, 455

—method of measuring torsion of femur in congenital dislocation of hip in children (ab), W. Edgren and L. E. Laurent, March, 456

—radiological signs of congenital subluxation, with description of new sign (ab), B. Franchi, Jan., 140

**HIRSCH, BARBARA B., BROWN, MARY B., NAGAREDA, C. SUSAN, and KAPLAN, HENRY S.:** Comparative activity of isologous vs. heterologous or heterologous mouse marrow in promoting regeneration of the irradiated mouse thymus (ab), May, 795

—See **CARNES, WILLIAM H.**

—See **KAPLAN, HENRY S.**

**HIRSCHSPRUNG'S DISEASE.** See **Colon, dilatation**

**HISTIOCYTOSIS.** See **Reticuloendothelial System**

**HISTIOPLASMIN AND HISTIOPLASMOSIS**

—acute fulminating histioplasmosis (ab), George E. Fissel, June, 890

—disseminated pulmonary calcification: its association with positive reaction to histioplasm antigen (ab), Mark H. Jores and Boris Bushnell, April, 601

**HOARSENESS**

—and painful deglutition due to massive cervical exostoses (ab), Charles V. Heck, April, 600

**HOBBS, ARTHUR A., Jr.** See **BECK, ROBERT E.**

**HOCHBERG, LEW A., and CRASTNOPOL, PHILIP:** Primary sarcoma of the bronchus and lung (ab), June, 889

**HODGE, K. E.:** Gravitational placentography, May, 637

**HODGES, FRED J.:** Growing importance of cardiovascular radiology (ab), May, 767

Position of radiology in cardiovascular diagnosis (ab), March, 439

**HODGKIN'S DISEASE**

—differentiated histologic findings of lymphogranulomatosis as basis of therapeutic success (ab), Hermann Trubenstein, March, 465

**HODSON, C. J.:** Localization of pulmonary collapse-consolidation (ab), May, 763

**HOECKER, FRANK E., and WATKINS, IVAN:** Radiation polymerization of liquids, Feb., 257

**HÖFER, RUDOLPH.** See **FELLINGER, KARL**

**HÖFFKEN, W.:** Aspergilloma of the lung (ab), Feb., 285

**HOFFMAN, HOWARD A., KOCZERA, STANLEY J., PORTNOY, NELSON L., SIMAS, WILSON, and HASTREITER, ALOIS R.:** Urologic examination with the new radiopaque mediums diatrizoate, acetrizate, and diatrizoate. A clinical comparison (ab), June, 904

**HOFFMAN, MARILYN.** See **NETSKY, MARTIN G.**

**HOLLENDONNER, WERNER J., and PASTOR, BERNARD H.:** Dextroposition of the heart simulating congenital dextrocardia (ab), Feb., 287

**HOLLINGSWORTH, JOHN C.** See **SNOW, WILLIAM**

**HOLM, OLOF FR.:** Occurrence of free gas in the fetus in cases of intra-uterine death (ab), Feb., 299

**HOLMDAHL, KAJ H.:** Cholecystography during lactation (ab), Feb., 295

**HOLMES, FRANCIS H.** See **SILVIS, RICHARD S.**

**HOLSTI, LARS R.:** Osteochondritis ischiopubica (ab), Jan., 140

**HOLT, J. GARRETT:** A nomographic wheel for three dimensional localization of radium sources and calculation of dose rate (ab), Jan., 150

**HOLTER, I.** See **AMUNDSEN, P.**

**HOPE, JOHN W.** See **NAGLE, W. WILLIAM**

**HORNBuckle, LLOYD A.** See **CRAWFORD, EDWARD J., Jr.**

**HORWITZ, NORMAN H.:** Positive contrast ventriculography —a critical evaluation (ab), May, 754

—and **DUNSMORE, REMBRANDT H.:** Some factors influencing the nonvisualization of the internal carotid artery by angiography (ab), Jan., 122

**HOUGH, GARY.** See **CAFFEY, JOHN**

**HOUSER, JOSEPH M.** See **JONSSON, SIGMUNDUR M.**

**HOWARD, WILLIAM H. R.** See **CLATWORTHY, H. WILLIAM, Jr.**

**HOYT, LYMAN H.** See **MacDONALD, GEORGE E.**

**HSIEH, C. L.:** The stray radiation levels of a 45 MeV travelling wave linear electron accelerator (ab), Feb., 308

**HUANG, KEE-CHANG, and BONDURANT, JAMES H.:** Effect of total body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), April, 635

**HUDSON, FRANK.** See **CRAMER, FRITZ**

**HUDSON, GRANVILLE W.:** Venography in superior vena caval obstruction, April, 499

—See **CONIGLIO, JOHN G.**

**HUFFORD, CLARENCE E.:** Introduction of the Carman lecturer, March, 317

**HUFNAGEL, CHARLES A.** See **SCHILDER, DONALD P.**

**HUGGINS, R. A.** See **SMITH, E. L.**

**HUGHES, H. A., and MILLER, R. M.:** Plasma activity levels in radioiodine tests of thyroid function (ab), Jan., 150

—See **MURISON, C. A.**

**HUGHES, W. I.** See **ROBERTSON, J. S.**

**HUGHES, WILLIAM F.** See **SILVIS, RICHARD S.**

**Humerus****fractures**

—uptake of radiolabeled sulfur in fractured humerus in rat (ab), J. C. Osborne and K. Kowalewski, May, 790

**HUMMOND, IRVIN F., Jr.** See **LUTTERBECK, EUGENE F.**

**HUNT, E. L.** See **GARCIA, JOHN**

**HUNTER, CURWOOD R.:** Indications and technique of cerebral angiography (ab), Jan., 122

**HUNTER, T.:** Solitary eosinophilic granuloma of bone (ab), March, 452

**HURST, G. S.** See **UPTON, A. C.**

**HUSTON, JOHN H.** See **ROWE, GEORGE G.**

**HUSTON, WILLIAM A.** See **SCHULTZ, E. C.**

**HUTT, M. R. S.** See **WETHERLEY-MEIN, G.**

**HVLBOLL, ELIZABETH E.** See **HALSTED, JAMES A.**

**HWA, EUGENE C.** See **CORPE, RAYMOND F.**

**HYALINE MEMBRANE.** See **Lungs, pathology**

**HYDATID DISEASE.** See **Echinococcosis**

**HYDROCEPHALUS**

—vertebral angiography in diagnosis of hydrocephalus and differentiation between stenosis of aqueduct and cerebellar tumor (ab), F. Olov Löfgren, May, 757

—vertebral angiography in supratentorial expansive processes (ab), F. Columella and I. Papo, May, 758

**HYDROCORTISONE.** See **Adrenocortical Preparations**

**HYDRONEPHROSIS**

—diagnosis of intermittent hydronephrosis: importance of pyelography during episodes of pain (ab), Reed M. Nesbit, March, 457

—renal angiography in experimental hydronephrosis (ab), Hans Idborn, Feb., 299

**HYPAQUE.** See **Eyes, Pyelography**

**HYPEROSTOSIS GENERALISATA.** See **Bones, pathology**

**HYPEROSTOSIS, INFANTILE CORTICAL.** See **Bones, pathology**

**HYPOPHARYNX.** See **Pharynx**

**HYSTEROGRAPHY.** See **Uterus, hemorrhage**

**I**

**IANNACCONE, G., and BARILLA, M.:** Cyst-like structures in the proximal end of the ulna: anatomic and roentgenological appearance and interpretation (ab), March, 455

**IDBOHRN, HANS:** Renal angiography in experimental hydronephrosis (ab), Feb., 299

**ILEUM.** See **Intestines**

**ILEUS.** See **Intestines, obstruction**

**ILLINGWORTH, C. F. W.** See **FORREST, A. P. M.**

**IMAGE INTENSIFIER.** See **Roentgen Rays, fluoroscopy**

**INDUSTRY AND OCCUPATIONS**

—See also **Caisson Disease; Dentistry; Mines and Miners; Pneumoconiosis; etc.**

—comparative roentgen findings in symptomatic and asymptomatic backs, Tom M. Fullenlove and A. Justin Williams, April, 572

—impact of atomic energy industry on community health; panel discussion (ab), May, 793

—interdigital sinuses in barber's hand (ab), H. D. W. Powell, Jan., 140

—pulmonary changes in welders; 3 cases (ab), Robert Charr, April, 602

**INDUSTRY AND OCCUPATIONS—cont.**

- study of effects on lung of industrial exposure to zirconium dusts (ab), C. E. Reed, May, 764
- use of electron beams in industrial processes, E. Dale Trout, May, 708

**INDYK, J. S. See RUNDLE, F. F.****INFANTS, NEWBORN**

- See also Infants, Premature; Meconium
  - atresia of vagina in infancy (ab), Robert H. Whittlesey et al, June, 902
  - congenital goiter, W. William Nagle, John W. Hope and Alfred M. Bongiovanni, April, 526
  - congenital intrinsic duodenal obstruction; 32 cases (ab), Thomas C. Moore, June, 895
  - congenital tracheoesophageal fistula without atresia of esophagus (ab), Richard Koch and John M. Clark, April, 606
  - effect of antepartum diagnostic roentgenography on white blood cell count, Irwin H. Kaiser and James F. Marvin, Feb., 249
  - hyaline membrane disease: preclinical roentgen diagnosis. Planned study, S. B. Feinberg and M. E. Goldberg, Feb., 185
  - Kartagener's syndrome in newborn infant (ab), Samuel J. Nichamin, May, 766
  - mongolism (mongoloid deficiency) during early infancy—some newly recognized diagnostic changes in pelvic bones (ab), John Caffey and Steven Ross, March, 456
  - note on congenital laryngeal stridor (ab), T. G. Wilson, April, 601
  - roentgenographic findings in respiratory problems of infants (ab), S. B. Feinberg, March, 439
  - spontaneous pneumoperitoneum in newborn; case (ab), Arnold Porter, Feb., 293
- INFANTS, PREMATURE**
- study of uptake of iodine (I-131) by thyroid of premature infants (ab), Edgar E. Martner et al, Feb., 309
- INFARCTION. See Bones; Heart; Lungs**
- INGLEBY, HELEN, AND MOORE, LOLITA:** Periodic roentgenographic studies of a growing human mammary cancer (ab), June, 894
- See **GERSHON-COHEN, J.**

**INSULIN**

- disulfide reduction and release of iodide 131 following irradiation of  $I^{131}$  labeled proteins, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100

**INTERLINGUA SUMMARIES** (ed), Jan., 106**INTERNATIONAL CANCER CONFERENCE (SEVENTH),** April, 586**INTERNATIONAL CONVENTION OF X-RAY TECHNICIANS (SECOND),** March, 426**INTESTINES**

- See also Colon; Gastrointestinal Tract diseases
  - contribution of radiologic methods of examination to detection of organic disease of small intestine (ab), Ross Golden, March, 448
  - malabsorption syndrome in military personnel in Puerto Rico (ab), Frank H. Gardner, May, 772
  - radiology of inflamed small intestine: functional and organic signs of inflammatory disease (ab), E. Chérigé, Jan., 133
  - roentgenological findings of small intestine in 100 repatriated prisoners of war. Deficiency states and worm infestations (ab), Walter Francke, May, 773
- effects of radiation**
- biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (ab), John G. Coniglio et al, April, 635
  - corticotropin (ACTH) gel in treatment of irradiation enterocolitis; 2 cases (ab), George E. MacDonald and Lyman H. Hoyt, June, 917
  - efficacy of hematopoietic protective procedures in rats x-irradiated with intestine shielded (ab), Marguerite N. Swift et al, March, 474
  - evaluation of fecal recovery method for determining intestinal absorption of cobalt<sup>60</sup>-labeled vitamin B<sub>12</sub> (ab), James A. Halsted et al, May, 790
  - importance of intestinal flora in radiation treatment of gynecological carcinomata (ab), J. Bretnier and W. Roth, April, 621
  - modification of acute intestinal radiation syndrome through shielding (ab), Marguerite N. Swift and S. Tom Taketa, April, 634
  - nature of intestinal radiation death (ab), Henry Quastler, March, 474
  - prevention of intestinal radiation death by removal of irradiated intestine (ab), James W. Osborne, April, 634
  - radiation injury to small bowel with special consideration of surgical complications (ab), H. Harvey Peterson and Edwin G. Clausen, May, 791
  - some effects of ionizing radiation on physiology of gastrointestinal tract: review (ab), Robert A. Conard, June 916
- obstruction. See also Intussusception**
- closed loop obstruction of afferent limb; late complication of antecolic partial gastrectomy (ab), N. Hajdu et al, June, 895
  - from radiological point of view (ab), Everett L. Pirkey and Dale Undem, April, 609
  - meconium ileus, Ronald E. Herson, April, 568

- meconium ileus; clinical study of 20 surviving patients (ab), Harry Shwachman et al, Jan., 132
- meconium plug syndrome (ab), H. William Clatworthy, Jr., et al, March, 448

- studies in recognition of strangulating obstructions with special reference to value of pneumoperitoneography (ab), John F. Perry, Jr., et al, April, 609

**roentgenography. See also Cecum; other subheads under Intestines**

- improved technic for double-contrast examination of colon by use of compressed carbon dioxide, George Levene and S. A. Kaufman, Jan., 83
- self-retaining barium-enema tip: improvement, William Snow and John C. Hollingsworth, March, 418

**tumors**

- hemangioma of small intestine, Seymour Ochsner and Rawley M. Penick, Jr., June, 845
- malignant argentaffinoma associated with cardiovascular abnormalities (ab), W. R. Byler et al, Jan., 129
- multiple lipomas of ileum (ab), John W. Findley, Jr., and William H. Thompson, Jan., 133

**ulcers**

- ulcerative jejunitis in polyarteritis, Alice Ettinger and R. Perez-Tamayo, May, 669

**volvulus**

- of cecum and sigmoid colon; analysis of 9 cases (ab), Thomas C. Nelson and Warner F. Bowers, Feb., 292

**INTRIERE, ANTHONY D., and BROWN, CHARLES H.:** Primary amyloidosis. Report of a case of gastric involvement only (ab), March, 447**INTRINSIC FACTOR**

- studies in urinary excretion of vitamin B<sub>12</sub>Co<sup>60</sup> in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ab), William R. Best et al, March, 471

**INTUSSUSCEPTION**

- as cause of "disappearing" carcinoma of rectum (sigmoid) (ab), Harvey J. Dworken, Feb., 293
- in adults (ab), David L. Dean et al, June, 895
- in children and adults; collective review (ab), Marshall J. Orloff, Feb., 293

**IODINE AND IODINE COMPOUNDS**

- See also Biliary Tract, roentgenography; Pyelography; etc.

- danger of aortography in localization of pheochromocytoma (ab), Nathan J. Saltz et al, May, 785
  - effect of intravenous Benadryl in allaying allergic manifestations of 70 per cent Urokon (ab), Jack Lapidus and Robert E. Boyd, April, 617
  - iodide "mumps" after intravenous urography (ab), Ralph M. Sussman and Jay Miller, June, 905
  - major reactions to intravenous urographic media (Urokon) (ab), Charles H. Nicolai, June, 904
  - monochromatic roentgen rays in (iodine-containing) contrast media roentgenography (ab), Michel Ter-Pogossian, Feb., 301
  - paraplegia secondary to abdominal aortography (with Urokon) (ab), Joseph G. McCormack, April, 605
  - physiological effect of contrast media (Neo-Iopax, Diodrast, and Urokon) used for angiocardiology (ab), George G. Rowe et al, April, 604
  - reactions due to intravenous Urokon (ab) Vernon H. Youngblood et al, April, 617
  - vascular responses to intra-arterial Diodrast and Urokon during arteriography (ab), Robert S. Shaw, March, 443
- radioactive. See Radioactivity, radioiodine; Thyroid**
- IODIPAMIDE METHYLGLUCAMINE. See Biliary Tract, roentgenography**

**IONIZATION CHAMBERS**

- flux of secondary ionizing particles in uniformly irradiated homogeneous medium of varying density: application to walled ionization chambers (ab), G. Failla, Feb., 309
- periodic control of function and constancy of ionization chamber dose meters (ab), R. Thoraes, April, 623
- tissue equivalent ionization chambers (ab), Harald H. Rossi and G. Failla, March, 465

**IRIDIUM. See Radioactivity, radioiridium****IRON AND IRON COMPOUNDS**

- See also Radioactivity, radioiron; Siderosis
- advances toward a stable sensitive iron dosimeter, Gail D. Adams and William R. Bulkwell, Jan., 101

**IRVINE, R. E.:** Outcome of uncomplicated syphilitic aortitis (ab), Feb., 288**ISAAC, FRANK, BREM, THOMAS H., TEMKIN, EUGENE, and MOVIUS, HERBERT J.:** Congenital malformation of the renal artery, a cause of hypertension, May, 679**—SCHÖEN, IRWIN, and WALKER, PHYLLIS:** An unusual case of Linda's disease. Cystic disease of the kidneys and pancreas with renal and cerebellar tumors (ab), March, 460**ISARD, HAROLD J., BERGELSON, VICTOR D., and FOREMAN, JOSEPH:** Mediastinal pneumography (ab), Feb., 285**ISCHMUS**

- osteochondritis ischiopubica (ab), Lars R. Holsti, Jan., 140
- osteoid osteoma of ischium with hip joint complications (ab), F. G. Stuart, April, 613

**ISHERWOOD, JOHN A., SIMPSON, JOHN W., and SAENGER, EUGENE L.:** Carcinoma of the uterine cervix. Four years of cooperation of gynecologist and radiotherapist (ab), Feb., 304

ISOTOPES. See Radioactivity

ISRAEL, HAROLD L. See STEIN, GEORGE N.

## J

- JACKNOW, ALBERT S. See O'CONNOR, SYLVESTER J.  
 JACKSON, ANDREW H. See HAHN, P. F.  
 JACKSON, MARVIN A. See HAHN, P. F.  
 JACKSON, ROBERT C., McDONALD, JOHN R., and CLAGETT, O. THERON: Massive cystic pulmonary hamartoma. Report of two cases (ab), Feb., 282  
 JACOBS, J. KENNETH: Acute emphysematous cholecystitis (ab), March, 449  
 JACOBS, LEWIS G. See PONTIUS, JOHN R.  
 JACOBSEN, H. H.: Suboccipital gas myelography in diagnosis of herniated disc in the cervical segment (ab), May, 783  
 JACOBSON, A. See MEURK, M. L.  
 JACOBSON, GEORGE, SCHWARTZ, LEONARD H., and SUSSMAN, MARCY L.: Radiographic estimation of pulmonary artery pressure in mitral valvular disease, Jan., 15

—See ENGLE, ROBERT B.

—and ZUCHERMAN, SIDNEY D.: Roentgenographically demonstrable splenic deposits in sickle cell anemia (ab), June, 905

JACOBSON, HAROLD G., SHAPIRO, JEROME H., STERN, WILHELM, and POPPEL, MAXWELL H.: Positional relation of gallbladder to hepatic flexure (ab), May, 773

—See POPPEL, MAXWELL H.

JAFKE, HENRY L.: Juxtacortical chondroma (ab), April, 610

JAIMET, C. H., and THODE, H. G.: Further clinical studies of thyroid and salivary gland function with radioiodine (ab), April, 827

JAMES, J. A.: Renal tubular disease with nephrocalcinosis. Report of two unusual cases (ab), April, 615

JAMES, J. I. P.: Paralytic scoliosis (ab), June, 899

JANKER, R.: Dosages in diagnostic roentgenology (ab), March, 473

Television in diagnostic roentgenology (ab), Feb., 301

JANSSEN, G. THOMAS, and CURTIS, ARTHUR C.: X-ray exposure in dermatology personnel (ab), May, 792

JANTON, O. HENRY, DAVILA, JULIO C., and GLOVER, ROBERT P.: Status of fifty patients four and a half to seven years after mitral commissurotomy (ab), June, 891

JAVERT, CARL T., and DOUGLAS, R. GORDON: Treatment of endometrial adenocarcinoma. A study of 381 cases at the New York Hospital. Preliminary report (ab), Jan., 145

## JAWS

—cherubism—familial fibrous dysplasia of jaws (ab), Gy. Frigyesi, March, 436

JEANJEAN, Y. See TURLAF, J.

JECH, CESTMIR: Retention of radon decay products in human lung (ab), May, 793

JEFFERSON, ANTONY, and SHELTON, PHILIP: Transtentorial herniation of the brain as revealed by the displacement of arteries (ab), May, 760

JEJUNUM. See Intestines

JENNINGS, W. ALAN: Percentage depth dose in moving-field therapy, May, 698

—and McCREA, ALICE L.: Dose distribution in conical rotation therapy at 2 MeV, Jan., 104

Dose distribution in conical rotation therapy with a 2-MEV generator, May, 689

JENSEN, VIDAR, and WOLFF, AAGE: Congenital intralobar sequestration with anomalous artery from the aorta (ab), March, 437

JEROME, EDWARD A. See CHAPMAN, WILLIAM H.

JIROUT, JAN: Changes in the size of the subarachnoid spaces after the insufflation of air (ab), May, 753

Studies in the dynamics of the spine (ab), May, 780

JOHNS, H. E., MORRISON, M. T., and WHITMORE, G. F.: Dosage calculations for rotation therapy, with special reference to cobalt 60 (ab), April, 631

—See BRUCE, W. B.

—See REID, W. B.

—See SKARSGARD, L. D.

JOHNSON, PHILIP C. See BEIERWALTES, WILLIAM H.

JOHNSTON, DAVID O. See WISE, ROBERT E.

JOHNSTON, PAUL W., and WEINBERG, JOSEPH A.: Significance of pulmonary coin lesions (ab), May, 764

JOHNSTONE, HERBERT G. See STEINBACH, HOWARD L.

## JOINTS

See also under names of joints, as Ankle; Hip; Knee  
 —bone, joint and soft-tissue changes following paraplegia, Thomas Lodge, May, 780

—joint and bone disease due to mycotic infection (ab), Elam C. Toone, Jr., and John Kelly, Jan., 138

JÓNA, I. See RÓTH, M.

JONES, D. E. A., GREGORY, C., and BIRCHALL, I.: Dosage distribution in rotational cobalt 60 therapy (ab), Feb., 308

JONES, JAMES C. See WHITTLESEY, ROBERT H.

JONES, MALCOLM D., STEINBACH, HOWARD L., and RAPHAEL, ROBERT L.: Sodium amidotrizoate (Hypaque) and sodium acetrizoate (Urokon). Comparison of efficacy in intravenous urography (ab), June, 904

JONES, PETER H. See FLY, ORCENETH A., Jr.

JONSSON, SIGMUNDUR M., and HOUSER, JOSEPH M.: Scleroderma (progressive systemic sclerosis) associated with cancer of the lung. Brief review and report of case (ab), June, 889

JORDAN, DONN L. See VOGEL, HOWARD H., Jr.

JORESS, MARK H., and BUSHUEFF, BORIS: Disseminated pulmonary calcification: its association with a positive reaction to histoplasmin antigen (ab), April, 601

JUNIPER, KERRISON, Jr., and WOOLF, WILLIAM E.: Biliary tract studies. I. X-ray diffraction analysis of gallstones; correlation with occurrence of microspheroliths in bile (ab), Jan., 134

JUSTER, M. See FISCHGOLD, H.

## K

KAHR, ERNST: Grid therapy of bronchial carcinoma (ab), May, 789

KAISER, IRWIN H., and MARVIN, JAMES F.: Effect of antepartum diagnostic roentgenography on the white blood cell count of the newborn infant, Feb., 249

KALLMAN, ROBERT F., and KOHN, HENRY I.: The reaction of the mouse spleen to x-rays measured by changes in organ weight (ab), Feb., 314

KAMIETH, H.: Diagnosis and differential diagnosis of chronic supracardiac changes of the lower esophagus (ab), April, 606

KANE, J. J. See ASHMORE, J. D.

KAPLAN, ERVIN. See FIELDS, THEODORE

KAPLAN, GUSTAVE, ADLER, HOWARD, and ROSWIT, BERNARD: Carcinoma of the scrotum (ab), Feb., 306

KAPLAN, HENRY S., BROWN, MARY B., HIRSCH, BARBARA B., and CARNES, WILLIAM H.: Indirect induction of lymphomas in irradiated mice. II. Factor of irradiation of the host (ab), May, 794

—CARNES, WILLIAM H., BROWN, MARY B., and HIRSCH, BARBARA B.: Indirect induction of lymphomas in irradiated mice. I. Tumor incidence and morphology in mice bearing nonirradiated thymic grafts (ab), May, 794

—See CARNES, WILLIAM H.

—HIRSCH, BARBARA B., and BROWN, MARY B.: Indirect induction of lymphomas in irradiated mice. IV. Genetic evidence of the origin of the tumor cells from the thymic grafts (ab), May, 795

—See HIRSCH, BARBARA B.

KAPLAN, IRA I.: Genetic speculation based upon animal experimentation in relation to actual human experiences, in the treatment of female infertility and sterility by x-ray therapy (ab), April, 633

KAPOSI'S SARCOMA. See Sarcoma, Kaposi's

KARK, ROBERT M. See SCHOENBERGER, JAMES A.

KARTAGENER'S TRIAD. See Bronchiectasis

KASSENAR, A. A. H. See STANBURY, JOHN B.

KATZ, S. See REMOLAR, JORGE

KATZ, SOL. See DAVIS, EDGAR W.

KAUFMAN, JOSEPH J., and RUSSELL, MURRAY: Cystourethrography. Clinical experience with the newer contrast media (ab), March, 458

KAUFMAN, S. A. See LEVENE, GEORGE

KAWASHIMA, E. See SOTEROPOULOS, C.

KAY, R. E., HARRIS, D. C., and ENTENMAN, C.: Urinary excretion and plasma levels of free ninhydrin reactive compounds in x-irradiated rats (ab), May, 796

KEATING, F. RAYMOND, Jr. See McCONAHEY, WILLIAM M.

KEATS, THEODORE E.: Dysplasia epiphysialis hemimelica (tarsal-epiphysal aklasis), April, 558

—KREIS, Van ALLEN, and SIMPSON, ELLEN: An evaluation of the roentgen manifestations of isolated ventricular septal defect, Jan., 9

KEETTEL, WILLIAM C., and ELKINS, H. B.: Experience with radioactive colloidal gold in the treatment of ovarian carcinoma (ab), Jan., 151

—See ELKINS, H. B.

KEISER, G., and HARTMANN, H.: Atypical reticulum cell sarcoma of the skeletal system (ab), June, 898

KELLY, EUGENE W. See SOLOFF, LOUIS A.

KELLY, JOHN. See TOONE, ELAM C., Jr.

KEMP, F. H. See ARDRAN, G. M.

KEMPE, LUDWIG G. See HAYNE, ROBERT A.

KENDIG, TOM A., GASPARD, MAX R., SECREST, PETTUS G., and SHACKFORD, B. C.: Calcification in gastric carcinoma. Case report, Jan., 80

KENNEDY, ROBERT J. See MILLER, WILLIAM

KENNEDY, ROGER L. J. See BRUWER, ANDRÉ J.

KENNEDY, THELMA T. See HARPER, PAUL V.

KENNEY, LEO J., and EYLER, WILLIAM R.: Preoperative diagnosis of sequestration of the lung by aortography (ab), Feb., 281

KENT, EDWARD M. See FORD, WILLIAM B.

- KENT, H. P.** See **BARCLAY, T. H. CRAWFORD**
- KERNWEIN, GRAHAM A., SNEED, WILLIAM R., Jr., ROSEBERG, BERTIL, and ZEIER, FRANCIS G.:** Arthrography of the shoulder as a diagnostic aid in tendon injuries (ab), Feb., 297
- KERR, H. DABNEY, and FLYNN, ROBERT E.:** Role of irradiation in the treatment of Wilms' tumor in children (ab), March, 465
- KESKEY, G. RICHARD, and LETSCH, WILLIAM R.:** Retrobulbar air injection with planigraphy (ab), June, 886
- KIDNEYS**  
See also Hydronephrosis; Pyelography; Uremia  
—artificial kidney and ion exchange resins as possible methods of removing radioelements from the body, W. B. Looney, C. J. Maletskos, Marie Helmick, John Reardon, Jonathan Cohen and Warren Guild, Feb., 255  
—clinical study of new renal function test: radioactive Diadrast (tagged with  $I^{131}$ ) renogram (ab), Chester C. Winter, June, 903  
blood supply. See Aneurysm, renal; Arteries, renal; Fistula, arteriovenous; Hydronephrosis  
calcification  
—nephrocalcinosis in patient with duodenal ulcer disease; case associated with parathyroid adenoma (ab), Robert E. Mitchell, Jr. et al, April, 615  
—renal tubular disease with nephrocalcinosis; 2 unusual cases (ab), J. A. James, April, 615  
—"spongy" kidney and nephrocalcinosis (ab), G. Balestra and B. Delpino, June, 903  
cancer  
—arteriovenous fistula of renal vessels (caused by adenocarcinoma); case (ab), Jon R. Myhre, June, 903  
—differential diagnosis between cancer and solitary serous cyst (ab), B. G. Clarke et al, April, 615  
—vertebral metastasis in renal carcinoma: anatomic correlation (ab), George T. Wohl, March, 454  
cysts. See also Kidneys, tumors  
—differential diagnosis between cancer and solitary serous cyst (ab), B. G. Clarke et al, April, 615  
—polycystic disease in infants: nephrograms following intravenous urography (ab), C. L. Hinkel and L. C. Santini, May, 784  
—radiologic picture of medullary sponge kidney: review of literature and presentation of 2 cases (ab), Antonio Di Sieno and Bruno Guareschi, Jan., 141  
—"spongy" kidney and nephrocalcinosis (ab), G. Balestra and B. Delpino, June, 903  
—ureteritis cystica and pyelitis cystica; review of cases and roentgenologic criteria, Bernard S. Lottman and Harold Chiat, March, 345  
diseases  
—renal tubular disease with nephrocalcinosis; 2 unusual cases (ab), J. A. James, April, 615  
fistula. See Fistula  
insufficiency  
—acute renal failure following translumbar aortography (using Urokon Sodium) (ab), Owen C. Berg, May, 784  
pelvis  
—obstructed ureteropelvic junction, Robert Lich, Jr., March, 337  
—visualization of renal pelvis in cholangiography (ab), Georg Theander, Feb., 295  
roentgenography. See also Pyelography; other subheads under Kidneys  
—serious complications associated with newer diagnostic methods in urology (retroperitoneal pneumography and aortography) (ab), William Baurys, March, 459  
tumors  
—radiotherapy in new growths (ab), E. W. Riches, May, 786  
—roentgen diagnosis of neoplasms (ab), J. H. Woodruff et al, Feb., 300  
—role of irradiation in treatment of Wilms' tumor in children (ab), H. Dabney Kerr and Robert E. Flynn, March, 465  
—treatment of Wilms' tumor (ab), Elmer Ng and Bertram V. A. Low-Beer, April, 621  
—unusual case of Lindau's disease: cystic disease of kidneys and pancreas with renal and cerebellar tumors (hemangioblastoma) (ab), Frank Isaac et al, March, 460
- KIERLAND, ROBERT R.** See **BRUWER, ANDRÉ J.**
- KIMELDORF, DONALD J.** See **GARCIA, JOHN**
- KING, DONALD P.** See **STORAASLI, JOHN P.**
- KING, J. CASH:** Trauma to the abdominal and retroperitoneal viscera as it concerns the radiologist (ab), April, 617
- KING, P., LOCKHART, L. B., JR., BAUS, R. A., PATTERSON, R. L., JR., FRIEDMAN, H., and BLIFFORD, I. H., JR.** Rad. RaE, and Po in the atmosphere (ab), April, 636
- KING, PHILIP S.** See **LYLE, F. M.**
- KINNORY, DAVID S.** See **FIELDS, THEODORE**
- KIRBY, CHARLES K.** See **GARRITANO, ANTHONY P.**
- KIRKLIN, BYRL RAYMOND** (obit), June, 876
- KIRKLIN, JOHN W.** See **HABEIN, HAROLD C., Jr.**
- KIRKPATRICK, ROB H., and RILEY, CONRAD M.:** Roentgenographic findings in familial dysautonomia, May, 654
- KIRSH, ISRAEL E.** See **MANN, LAWRENCE S.**
- KIRSNER, JOSEPH B.** See **GALAMBOS, JOHN T.**
- KLASSEN, KARL P.** See **CRAWFORD, PATRICK**
- KLEIN, M. R.** See **LEFÈVRE, J.**
- KLIGERMAN, MORTON M., VREELAND, HOWARD W., and HAVINGA, JAN:** A graphical method for the localization of radium sources for dosage calculation (ab), Jan., 149
- KNEE**  
—tomographic studies on normal and injured knee (ab), Stig Fagerberg, Feb., 298
- KOCH, H. W.** See **ZENDLE, B.**
- KOCH, RICHARD, and CLARK, JOHN M.:** Congenital tracheoesophageal fistula without atresia of the esophagus (ab), April, 806
- KOCZERA, STANLEY J.** See **HOFFMAN, HOWARD A.**
- KOHLER, G. D.** See **TOCHILIN, E.**
- KOHN, HENRY I.:** On the direct and indirect effects of x-rays on the testis of the rat (ab), Feb., 314  
—See **KALLMAN, ROBERT F.**
- KOLB, WALTER:** The scintillation spectrometer, a measuring instrument in radiological practice (ab), June, 911
- KONAR, M. R., CHAUDHURY, D. C. ROY, and CHAUDHURY, R. ROY:** Effects of artificial gaseous distension of stomach and its role in making the liver radiologically visible (ab), Feb., 292
- KONECCI, EUGENE B., TAYLOR, WILLIAM F., and WILKS, SYRREL S.:** Protective action of carbon monoxide in mammalian whole-body x-irradiation (ab), Feb., 315
- KONNEKER, WILFRED.** See **SMOLIK, EDMUND A.**
- KOVACH, JOHN C., AVEDIAN, VICTOR, MORALES, GEORGE, and FOULOS, PETER:** Lung compartment determination (ab), Feb., 280
- KOVÁCS, ÁKOS:** Headache from subluxations of the cervical articulations (ab), June, 887
- KOVACS, LESLIE.** See **MELTZER, HERBERT**
- KOWALEWSKI, K.** See **OSBORNE, J. C.**
- KRAFT, ERNEST, and SLATER, GREGORY S.:** Excretory urography with Hypaque Sodium. Experience with 300 cases (ab), April, 617
- KRAINTZ, L.** See **SMITH, E. L.**
- KRAMER, PHILIP:** Frequency of the asymptomatic lower esophageal contractile ring (ab), Feb., 290
- KREIS, VAN ALLEN.** See **KEATS, THEODORE E.**
- KREMENS, V., BERGER, S. M., and COHEN, E. M.:** Comparison of rapid intravenously and orally administered contrast mediums for routine gall-bladder study (ab), Feb., 294
- KROHMER, JACK.** See **COLE, JACK W.**  
—See **THOMAS, CHARLES I.**
- KROHN, MELVIN.** See **ROSENBERG, NORMAN**
- KROLL, GEORGE.** See **SCHOENBERGER, JAMES A.**
- KRONSBELN, JOHN.** See **BECK, ROBERT E.**
- KÜNKEL, H. A.** See **SCHUBERT, G.**
- KUTHY, JOSÉ.** See **CELIS, ALEJANDRO**
- KUTZ, EUGENE R.:** Influence of histologic type on survival following radiotherapy of bronchogenic carcinoma (ab), June, 908
- KYMOGRAPHY**  
—bi-axial roentgenkymography: aid in differential diagnosis of solid mediastinal tumor and aneurysm (ab), Martin Schneider and Jorge Ceballos, Feb., 286  
—portable serial roentgenkymography in acute myocardial infarction (ab), J. J. Sampson et al, March, 440  
—systolic expansion or aorto-diastolic displacement. Roentgenkymographic study of left atrial movements in mitral cardiopathy (ab), F. Dalitz, Jan., 128

## L

- LABOR.** See **Placenta; Pelvis**
- LaCOUR, EDWARD G., and O'NEIL, LAWRENCE J.:** Acute pneumocholecystitis. A review of the literature and a report of one case (ab), April, 610
- LACRIMAL ORGANS**  
—sialographic differentiation of Mikulicz's disease and Mikulicz's syndrome, Philip Rubin and Byron E. Besse, Jr., April, 477  
—treatment of skin tumors of inner canthus with regard to function of lacrimal ducts (ab), Hansrudolph Renfer, Jan., 143
- LACTATION**  
—cholecystography during lactation (ab), Kaj H. Holmdahl, Feb., 295
- LAINE, E., DELANDTSHEER, J. M., GALIBERT, P., and DELANDTSHEER-ARNÓTT, G.:** Phlebography in tumours of the hemispheres and central grey matter (ab), May, 757
- LAME, EDWIN L.:** Vertebral osteomyelitis following operation on the urinary tract or sigmoid. The third lesion of an uncommon syndrome (ab), March, 454
- LAMINAGRAPHY.** See **Body-Section Roentgenography**
- LANDMANN, WENDELL A.** See **BEST, WILLIAM R.**
- LANGHAM, WRIGHT H.** See **ANDERSON, ERNEST C.**
- LANGMEAD, W. A.** See **WETHERLEY-MEIN, G.**
- LANGS, A.** See **WORINGER, E.**
- LANIER, RAYMOND R., WHITEHEAD, RICHARD W., and GUM, JANE H.:** Augmenting effects of radiation therapy by chemotherapy and other agents (ab), June, 910
- LAPIDES, JACK, and BOYD, ROBERT E.:** Effect of intravenous Benadryl in allaying allergic manifestations of 70 per cent Urokon (ab), April, 617

- LARDE-ARTHEZ, C. R.** See **COHEN, SAMUEL**
- LARSEN, KAARE A., and PEDERSEN, ARNE:** Roentgenologic findings in the stomach and duodenum in cancer of the pancreas (ab). April, 608
- LARSSON, L.-G.** See **EINHORN, J.**
- LARYNX**
- contrast examination of larynx and pharynx. William E. Powers, Harry H. McGee, Jr., and William B. Seaman, Feb., 169
  - note on congenital laryngeal stridor (ab). T. G. Wilson, April, 601
- LARYNGEAL**
- indications for radical surgery, partial surgery, radiotherapy and combined surgery and radiotherapy for cancer of larynx and hypopharynx (ab). Jean Leroux-Robert, Jan., 144
- PARALYSIS**
- radiologic investigation of pharyngeal and laryngeal palsy (ab). G. M. Ardran and F. H. Kemp, May, 761
- LASZLO, DANIEL.** See **SIEGEL, ELSIE P.**
- LATHROP, KATHERINE A.** See **HARPER, PAUL V.**
- LAUGHLIN, JOHN S.** See **FULLER, JOHN B.**
- LAURENT, L. E.** See **EDGREN, W.**
- LAWRENCE, G. H., and BURFORD, T. H.:** Congenital aneurysm of the superior vena cava (ab). Feb., 287
- LAWRENCE, JOHN H.:** Isotopes and nuclear radiations in experimental medicine (ab). April, 625
- LEAD**
- attenuation of 80- and 176-MEV synchrotron x-rays in concrete and lead (ab). William Miller and Robert J. Kennedy, April, 636
- LEADER, S. A.:** Delayed visualization of the gall bladder due to gastric retention (ab). May, 774
- LEBOURGNE, FELIX E., LEBOURGNE, RAUL, SCHAFFNER, EDUARDO, and LEBOURGNE, FELIX E., Jr.:** Study of the lymphatics of the mammary gland with radioactive gold (Au-198) (ab). March, 470
- LEBOURGNE, FELIX E., Jr.** See **LEBOURGNE, FELIX E.**
- LEBOURGNE, RAUL.** See **LEBOURGNE, FELIX E.**
- LE BUS, HOWARD E.:** Unusual osteochondroses presenting diagnostic difficulty (ab). June, 898
- LECTURE KIT.** See **Education**
- LEE, IAN N.:** Pulmonary metastases (ab). May, 764
- LEE, JOHN C., HELGASON, SKULI, and SNIDER, RAY S.:** Effects of acute x-irradiation on the evoked cerebellar response (ab). Feb., 315
- LEES, F.** See **BAIRD, I. McLEAN**
- LEFEBVRE, J., KLEIN, M. R., LEPINTRE, J., and FAURÉ, C.:** Roentgen study of spinal cord tumors in children (ab). May, 784
- LÉGER, JEAN-LOUIS.** See **RATELLE, GERMAINE**
- LEGS.** See **Extremities**
- LEHMANN, OTTO:** Fractures of the spine in children (ab). April, 611
- LEICHER, F.:** Differential diagnosis between aluminum lung and Boeck's sarcoid. A correction of the article by K. H. Ehrbeck (ab). March, 438
- LEIGH, KENNETH E.** See **WRIGHT, KENNETH A.**
- LEIOMYOMA.** See **Tumors, myoma**
- LENCZNER, MICHAEL.** See **OWEN, TREVOR**
- LENTINO, WALTER, MARCHETTO, INNOCENZO, and POPPEL, MAXWELL H.:** A modification of the routine lateral view of the chest to permit visualization of the superior mediastinum (ab). Feb., 285
- See **POPPEL, MAXWELL H.**
- PRINCIPATO, DOMINICK J., and POPPEL, MAXWELL H.:** Buckling of the carotid artery demonstrated by angiocardiography (ab). March, 442
- ZEITEL, BERTRAM E., JACOBSON, HAROLD G., and POPPEL, MAXWELL H.:** Intravenously given urographic mediums. Comparative study of eight hundred cases (ab). April, 616
- LENZI, M., and CANOSSI, G. C.:** Two years experience with a cisterno-encephalographic technic (ab). May, 759
- LEPINTRE, J.** See **LEFEBVRE, J.**
- LEPROSY**
- bone changes (ab). D. E. Paterson, March, 453
- LEROUX-ROBERT, JEAN:** Indications for radical surgery, partial surgery, radiotherapy and combined surgery and radiotherapy for cancer of the larynx and hypopharynx (ab). Jan., 144
- LESTER, RICHARD G.** See **GOTT, VINCENT L.**
- LETSCH, WILLIAM R.** See **KESKEY, G. RICHARD**
- LETTESCHER-SIWE DISEASE.** See **Reticuloendothelial System**
- LEUKEMIA**
- acute myeloid leukemia after radioactive iodine therapy (ab). John D. Abbott et al. April, 628
  - sex difference in response to titrated irradiation therapy (<sup>32</sup>P) of patients with chronic granulocytic leukemia (ab). William H. Crosby et al. May, 788
  - vertebral changes in childhood leukemia. Bernard S. Epstein, Jan., 65
- LEUKOCYTES**
- See also **Leukemia**
  - effect of antepartum diagnostic roentgenography on white blood cell count of newborn infant. Irwin H. Kaiser and James F. Marvin, Feb., 249
  - effect of transfusions of blood showing extreme leukocytosis on survival of x-irradiated mice (ab). C. C. Congdon et al. April, 634
- LEVENE, GEORGE, and KAUFMAN, S. A.:** An improved technic for double contrast examination of the colon by the use of compressed carbon dioxide. Jan., 83
- and **SCHIEFF, SAUL:** Intravenous cholangiography as an aid in diagnosis of carcinoma of the head of the pancreas. May, 714
- See **SCHIEFF, SAUL**
- LEVITIN, JOSEPH.** See **REICH, STANLEY B.**
- LEVY, LAURENCE F.:** Granuloma of the neck following Thorotrast angiography (ab). March, 436
- LEVY, LOUIS M., HANNON, DONALD W., SPRAFKA, JOSEPH L., and BARONOFFSKY, IVAN D.:** A method for coronary arteriography (ab). March, 444
- LEWIS, EVAN L., and CLÉTSOWAY, RICHARD W.:** Megaloureter (ab). Feb., 301
- LEWIS, PETER M.** See **HALSTED, JAMES A.**
- LEWTAS, N. A.** See **DIMANT, STEVENS**
- LIBBY, RAYMOND L.** See **MOORE, VINCENT**
- LICH, ROBERT, Jr.:** The obstructed ureteropelvic junction. March, 337
- LICHT, ERIK DE F.:** Arterioesenteric obstruction of the duodenum in adult life and adolescence (ab). April, 608
- LIDHOLM, S. O.** See **RINGERTZ, N.**
- LIEBERMAN, VERNON W.** See **BAUER, FRANZ E.**
- LIGAMENTS.** See **Spine**
- LILIEQUIST, B.:** The anatomy of the subarachnoid cisterns (ab). May, 753
- LILLEHEI, C. WALTON.** See **GOTT, VINCENT L.**
- LIMARZI, LOUIS R.** See **BEST, WILLIAM R.**
- LIND, JOHN.** See **BOESSEN, IB.**
- LINDAU'S DISEASE.** See **Tumors, angioma**
- LINDBLOM, C.** See **FRANKSSON, N.**
- LINDBOM, A.** See **HELANDER, C. G.**
- LINDELL, BO, and WALSTAM, RUNE:** A new telegamma apparatus (ab). Jan., 151
- LINDGREN, E.:** Another method of vertebral angiography (ab). June, 883
- See **AZAMBUJA, N.**
- LINEAR ELECTRON ACCELERATOR.** See **Electrons**
- LINGUATULIDAE.** See **Porocephalosis**
- LIPOMAS.** See **Tumors, lipoma**
- LIPOPROTEINS.** See **Blood, lipoproteins**
- LITTLETON, JESSE T.** See **FEIST, JOHN H.**
- LIVER**
- biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (ab). John G. Coniglio et al. April, 635
  - enlargement of liver in Sprague-Dawley rats following whole-body x-irradiation (ab). Helen Supplee et al. April, 635
  - plasma, tissue (liver) and urinary radioactivity after oral administration of <sup>57</sup>Co-labeled vitamin B<sub>12</sub> (ab). C. C. Booth and D. L. Molin, May, 789
  - recording of radioactivity in blood, liver, and prostate following interstitial administration of Au<sup>198</sup> in carcinoma of prostate (ab). Wayne M. Rounds and Titus C. Evans, April, 629
  - x-irradiation and liver regeneration in partially hepatectomized rats (ab). Leon L. Gershbein, April, 635
- blood supply.** See **Portal Vein**
- cancer**
- treatment of primary and metastatic cancer (ab). Irving M. Ariel, March, 464
- cirrhosis**
- hepatic cirrhosis and gastro-duodenal ulcer (ab). E. de Arzúa Zulaica, Feb., 291
  - investigation of transfer rates of albumin tagged with <sup>131</sup>I in ascites and edema. II. Studies in control subjects and patients with cirrhosis (ab). James A. Schoenberger et al. March, 469
- diseases**
- evaluation of oral cholecystography in liver disease (ab). William Mandel et al. Jan., 134
- echinococcosis**
- echinococcosis in North American Indians and Eskimos (ab). Herbert Meltzer et al. May, 765
- hernia**
- partial obstruction of inferior vena cava by herniation of liver through foramen of Morgagni, case. David Rosenblum, Arnold Nussbaum and Solomon Schwartz, March, 399
- roentgenography**
- colloidal stannic oxide; animal studies on new hepatolienographic agent. Harry W. Fischer, April, 488
  - does "laparoscopic" splenoportography indicate an advance in field of medical x-ray diagnosis? Contribution to early diagnosis of intrahepatic obstruction (ab). L. Wannagat, March, 451
  - effect of artificial gaseous distension of stomach and its role in making liver radiologically visible (ab). N. R. Konar et al. Feb., 292
  - pneumostratigraphy in investigation of left lobe of liver (ab). P. Bétoulouères et al. Feb., 293
- LIVINGSTON, SHIELDS O.** See **NORTH, JOHN P.**
- LIZAMA, CARLOS.** See **WEIR, ROYAL A.**
- LLAMBES, JAUN.** See **FARIÑAS, LAURA**
- LLOYD, G. A. S.:** X-ray manifestations of early malignant gastric ulceration (ab). March, 446

- LLOYD, JAMES.** See **CLATWORTHY, H. WILLIAM, Jr.**  
**LOCKHART, L. B., Jr.** See **KING, P.**  
**LOCKWOOD, IRA H., and CHAPMAN, SAMUEL B.:** Therapy of carcinoma of the urinary bladder (ab), Jan., 146  
**LODGE, THOMAS:** Bone, joint and soft tissue changes following paraplegia (ab), May, 780  
**LOEFFLER, R. KENNETH.** See **COLLINS, VINCENT P.**  
**LÖFGREN, F. OLOF:** Vertebral angiography in the diagnosis of hydrocephalus and differentiation between stenosis of the aqueduct and cerebellar tumour (ab), May, 757  
**LÖRINC, P.** See **BORIS, A.**  
**LOITMAN, BERNARD S., and CHIAT, HAROLD:** Urethritis cystica and pyelitis cystica. A review of cases and roentgenologic criteria, March, 345  
**LOMBARD, L. S.** See **ALLAM, M. W.**  
**LOMBARDI, G., and PASSERINI, A.:** Extradural cysts of the spine (ab), March, 453  
**LONGACRE, J. J.:** Surgical management of local postradiation effects (ab), May, 792  
**LOONEY, W. B., MALETSKOS, C. J., HELMICK, MARIE, REARDON, JOHN, COHEN, JONATHAN, and GUILD, WARREN:** The artificial kidney and ion-exchange resins as possible methods of removing radioelements from the body, Feb., 255  
**LOVELL, B. K.** See **NORTH, JOHN P.**  
**LOW-BEER, BERTRAM V. A., and BELL, H. GLENN:** Surgical and radiation treatment of carcinoma of the breast. A new concept (ab), April, 619  
 —See **NG, ELMER**  
**LOWMAN, ROBERT M.** See **DAVIS, LEONARD**  
**LUCAS, H. F., Jr.:** A stable, low-background, high-efficiency scintillation counter for analysis of low levels of radon concentrated by adsorption on charcoal, Feb., 258  
**LUNGHETTI, D.** See **SALOTTI, AD.**  
**LUNGS**  
 See also Arteries, pulmonary; Bronchi; Bronchiectasis; Pleura  
 —elimination of radioactive barium sulfate particles from lung (ab), H. Cember et al, May, 796  
 —fatal pulmonary insufficiency due to radiation effect upon lung (ab), Daniel J. Stone et al, June, 915  
 —retention of radon decay products in human lungs (ab), Čestmír Jech, May, 793  
**blood supply.** See also Arteries, pulmonary  
 —angiopulmographic study of lesser circulation in mitral stenosis (ab), A. Actis-Dato et al, May, 768  
 —secondary vascular changes in lungs (ab), Marcy L. Sussman and Thomas T. Frost, Feb., 281  
 —selective angiopneumography and correlative study of bronchography and histopathologic findings in tuberculous fibrothorax (ab), Raúl Cicero et al, Jan., 124  
 —total anomalous pulmonary return: analysis of 30 cases (ab), Vincent L. Gott et al, Feb., 288  
**calcification.** See **Histoplasmin and Histoplasmosis; Lungs, cancer**  
**cancer.** See also Bronchi, cancer  
 —calcification within solitary pulmonary nodule: fallible sign of benignity (ab), Edgar W. Davis et al, June, 890  
 —cancer of thyroid, with metastases to lungs. Condition shown by scintigram in absence of definite x-ray findings (ab), Boris Catz and Paul Starr, Jan., 150  
 —differential x-ray diagnosis of carcinoma (ab), Ernst A. Schmidt, Jan., 125  
 —evaluation of different radiologic methods (Dionosil, mucosography, tomography) in diagnosis of carcinoma (ab), Laura Fariñas et al, June, 889  
 —importance of thoracic duct in spread of malignant disease (ab), Alejandro Celis et al, Jan., 126  
 —primary pulmonary carcinoma associated with active pulmonary tuberculosis (ab), F. Bender, June, 888  
 —pulmonary adenomatosis (alveolar-cell carcinoma) (ab), A. Fancioni, Feb., 281  
 —pulmonary metastases (ab), Ian N. Lee, May, 764  
 —radiotherapy: results in selected group of cases (ab), Joseph Smart and Gwen Hilton, May, 785  
 —scleroderma (progressive systemic sclerosis) associated with cancer of lung; brief review and report of case (ab), Sigmundur M. Jonsson and Joseph M. Houser, June, 889  
 —supervoltage roentgen therapy (ab), T. A. Watson, Jan., 144  
 —2-million volt irradiation therapy for inoperable carcinoma (ab), Ruth J. Guttman, Feb., 303  
 —unusual roentgenologic aspects of pulmonary metastases (ab), P. Wellens, Feb., 282  
**cavitation**  
 —experimental staphylococcal bullous pneumopathy (ab), R. Herbeuval and G. Debray, May, 767  
**collapse**  
 —brief clinical consideration of pathogenesis of "functional" atelectasis (ab), Carlo Marino, Jan., 126  
 —etiology and radiation treatment of middle-lobe syndrome (ab), O. Fischedick, March, 463  
 —large pneumothorax and associated massive collapse of homolateral lung due to intrabronchial obstruction; case, Sidney W. Nelson, March, 411  
 —localization of pulmonary collapse-consolidation (ab), C. J. Hodson, May, 763  
 —middle lobe atelectasis of neuroreflex origin (?) (ab), Carlo Palamidessi, Jan., 126  
**cysts.** See also Lungs, tumors  
 —congenital intralobar sequestration with anomalous artery from aorta (ab), Vidar Jensen and Aage Wolff, March, 437  
 —giant air cyst(s) as sequela of pulmonary tuberculosis (ab), John L. Shek et al, May, 766  
 —preoperative diagnosis of sequestration by aortography (ab), Leo J. Kenney and William R. Eyer, Feb., 281  
**diseases**  
 —chronic localized pulmonary brucellosis (ab), Lyle A. Weed et al, May, 765  
 —histoplasmosis. See **Histoplasmin and Histoplasmosis**  
 —pleuropulmonary tularemia: its roentgen manifestations, John M. Dennis and Robert P. Boudreau, Jan., 25  
 —pneumoconiosis. See **Pneumoconiosis**  
 —pneumonitis. See **Pneumonitis**  
 —Salmonella bacteremia: case with military lung lesions and spondylitis, R. H. Greenspan and S. B. Feinberg, June, 860  
 —sarcoidosis. See **Sarcoidosis**  
 —study of effects on lung of industrial exposure to zirconium dusts (ab), C. E. Reed, May, 764  
**echinococcosis**  
 —echinococcosis in North American Indians and Eskimos (ab), Herbert Meltzer et al, May, 765  
**emphysema.** See **Emphysema**  
**fibrosis**  
 —differential diagnosis of fibrosing lesions, William R. Mit-chum and Boyer M. Brady, Jan., 36  
 —diffuse progressive interstitial fibrosis (Hamman-Rich syndrome) (ab), G. Schröder and H. Andersch, April, 601  
 —factors influencing radiological attack rate of progressive massive fibrosis (ab), A. L. Cochrane and W. E. Miall, March, 438  
**hemorrhage**  
 —recurrent pulmonary hemorrhage with hemosiderosis: so-called idiopathic pulmonary hemosiderosis (ab), André J. Bruwer et al, May, 766  
**infarction**  
 —temporary thrombotic state. Application of this concept to therapy of recurrent thrombo-embolism, with bacteriologic and roentgenologic considerations in the differential diagnosis of pulmonary infarction and pneumonia (ab), Stanford Wessler et al, Jan., 130  
**middle-lobe syndrome.** See **Lungs, collapse**  
**mycosis.** See **Aspergillosis; Blastomycosis; Coccidioidomycosis; Histoplasmin and Histoplasmosis; Nocardiosis**  
**pathology**  
 —chronic pulmonary infiltration with eosinophilia in the asthmatic (5 personal observations, including 1 with histopathologic analysis) (ab), J. Turiaf et al, Feb., 283  
 —circumscribed pulmonary lesions in periarteritis nodosa and Wegener's granulomatosis (ab), James V. Rogers, Jr. and Albert E. Roberto, May, 765  
 —familial dysautonomia: pulmonary manifestations (ab), Ralph E. Moloshok and John E. Moseley, Jan., 127  
 —hyaline membrane disease: preclinical roentgen diagnosis. Planned study, S. B. Feinberg and M. E. Goldberg, Feb., 185  
 —pathological anatomy of changes involving pulmonary parenchyma after high doses of x-rays (ab), Harold Henzi, June, 915  
 —pulmonary tuberous sclerosis; case (ab), André J. Bruwer et al, Feb., 283  
 —roentgenographic findings in familial dysautonomia, Rob H. Kirkpatrick and Conrad M. Riley, May, 634  
**roentgenography.** See also Bronchi; Tuberculosis, in children; Tuberculosis, Pulmonary; other subheads under Lungs  
 —basal horizontal lines on chest radiographs: significance in heart-disease (ab), R. E. Rossall and A. J. Gunning, April, 603  
 —coin lesions (ab), J. C. Gerrits, May, 764  
 —"coin" lesions (ab), William B. Ford et al, Jan., 125  
 —findings in respiratory problems of infants (ab), S. B. Feinberg, March, 439  
 —importance of pulmonary nodule (ab), Donald L. Paulson, Jan., 125  
 —posteroanterior roentgenogram in two types of anomalous pulmonary venous connection (ab), André J. Bruwer, May, 770  
 —radiology of lung in left heart failure (ab), D. S. Short, Feb., 287  
 —roentgenologic method for demonstration of bronchopulmonary segments in fully expanded cadaver lungs in situ (ab), Kuo-York Chynn and L. R. Sante, Feb., 280  
 —significance of coin lesions (ab), Paul W. Johnston and Joseph A. Weinberg, May, 764  
 —three cases of circumscribed pulmonary opacities simulating tumor (ab), J. D. Bristow and E. C. Gauden, May, 765  
 —use of different tube shifts in lung tomography, Hans Salinger and Hannah Friedman Barou, Feb., 209  
**sequestration.** See **Lungs, cysts**  
**tuberculosis.** See **Tuberculosis, Pulmonary**  
**tumors**  
 —massive cystic pulmonary hamartoma: 2 cases (ab), Robert C. Jackson et al, Feb., 282  
 —primary sarcoma of bronchus and lung (ab), Lew A. Hochberg and Philip Crastopol, June, 889  
 —three cases of circumscribed pulmonary opacities simulating tumor (ab), J. D. Bristow and E. C. Gauden, May, 765  
**volume.** See **Vital Capacity**  
**LUTTERBECK, EUGENE F., and HUMMON, IRVIN F., Jr.:** Clinical experiences with the strontium 90 applicator (ab), Jan., 152

- LUFTWAK, EDMUND M.** See **SALTZ, NATHAN J.**
- LYLE, F. M., and KING, PHILIP S.**: Treatment of peritoneal and pleural mesothelioma and metastatic malignancy with radioactive colloidal gold (ab), April, 628
- LYMPH NODES**
- calcification of regional nodes following BCG vaccination (ab), Samuel C. Stein and Martin J. Sokoloff, Jan., 124
  - few cases of glandular-bronchial fistula (ab), Armando Pinheiro and Fernando Outeiro, Jan., 127
  - histopathological study of lymph nodes irradiated with colloidal Au<sup>198</sup> (ab), William M. Christopherson and Harold F. Berg, Feb., 311
  - lymph node-fever relationship in lymphoma (ed), Don E. Matthiesen, May, 739
  - lymphadenography: new method for visualization of enlarged lymph nodes and lymphatic vessels; preliminary report (ab), Sven Bruun and Arnfinn Engeset, March, 461
- cancer**
- lymphatic dissemination of radiogold in presence of lymph node metastases (ab), Colin G. Thomas, Jr., May, 788
- LYMPHATIC SYSTEM**
- correlation of early radiation changes in lymphatic tissues with antitoxin-producing ability (ab), William L. Williams et al., April, 636
  - diagnostic possibilities of lymphangiography (ab), R. Gergely et al., June, 906
  - importance of thoracic duct in spread of malignant disease (ab), Alejandro Celis et al., Jan., 126
  - lymphadenography: new method for visualization of enlarged lymph nodes and lymphatic vessels; preliminary report (ab), Sven Bruun and Arnfinn Engeset, March, 461
  - lymphatic dissemination of radiogold in presence of lymph node metastases (ab), Colin G. Thomas, Jr., May, 788
  - study of lymphatics of mammary gland with radioactive gold (Au<sup>198</sup>) (ab), Felix E. Leborgne et al., March, 470
- LYMPHOGRANULOMATOSIS.** See Hodgkin's Disease
- LYMPHOMA.** See Tumors, lymphoma
- LYMPHOSARCOMA.** See Sarcoma, lymphosarcoma; Tumors, experimental
- LYNCH, P. R.** See **OPPENHEIMER, M. J.**
- LYNN, R. B.** See **CHIN, E. F.**
- LYONS, HAROLD A., and MANNIX, EDGAR P., Jr.**: Successful resections for bilateral pulmonary arteriovenous fistulas (ab), March, 444
- M**
- MAASS, LYMAN.** See **BOLDREY, EDWIN**
- MAFEE, JOHN G.**: A survey of complications of abdominal aortography, June, 825
- and **WILLSON, JAMES K. V.**: A review of the complications of translumbar aortography (ab), March, 443
- McBRIDE, BERT H.** See **McLAURIN, ROBERT L.**
- McCANN, J. SYDNEY, and PORTER, D. C.**: Calcification of the aorta as an aid to the diagnosis of syphilis (ab), Feb., 288
- MacCARTY, COLLIN S.** See **FLY, ORCENETH A., Jr.**
- McCOMBS, ROLLIN K.**: Proton irradiation of the pituitary and its metabolic effects, Memorial Fund lecture, June, 797
- McCONAHEY, WILLIAM M., OWEN, CHARLES A., Jr., and KEATING, F. RAYMOND, Jr.**: A clinical appraisal of radioiodine tests of thyroid function (ab), April, 626
- McCORMACK, JOSEPH G.**: Paraplegia secondary to abdominal aortography (ab), April, 605
- McCORMICK, DONALD B.** See **CONIGLIO, JOHN G.**
- McCREA, ALICE L.** See **JENNINGS, W. ALAN**
- McCREA, L.** See **BACON, H. E.**
- MacDONALD, GEORGE E., and HOYT, LYMAN H.**: Corticotropin (ACTH) gel in treatment of irradiation enterocolitis. Report of two cases (ab), June, 917
- MacDONALD, J. C. F.** See **MILLAR, OWEN**
- McDONALD, JOHN R.** See **JACKSON, ROBERT C.**
- McELHINNEY, J.** See **ZENDLE, B.**
- McGEE, HARRY H., Jr.** See **POWERS, WILLIAM E.**
- MACIAS, BENJAMIN.** See **GARCIA CASTAÑEDA, MAXIMO**
- McINTYRE, WILLIAM J.** See **THOMAS, CHARLES I.**
- MACK, ROBERT E., WELLS, HERSCHEL J., and POLLACK, ROBERT:** An in vivo method for the determination of cardiac output (ab), Feb., 245
- McKAY, J. W.** See **ROBY, H. R.**
- McKEOWN, JAMES E.** See **HALLIGAN, EARL J.**
- McKINNON, HECTOR N.** See **FLY, ORCENETH A., Jr.**
- McLAURIN, ROBERT L., and McBRIDE, BERT H.**: Traumatic intracerebral hematoma. Review of 16 surgically treated cases (ab), March, 435
- McMULLAN, FRANCIS H., and ZELIGMAN, ISRAEL:** Perifolliculitis capitis abscedens et suffodiens: its successful treatment with x-ray epilation (ab), May, 787
- MACNAB, IAN.** See **HARRISON, M. C.**
- MACPHERSON, JOHN, and WILSON, JOHN K.**: Radiological study of the placental stage of labour (ab), April, 614
- McRAE, DONALD L.**: Asymptomatic intervertebral disc protrusions (ab), May, 782
- MAGGIPIINTO, B.** See **ROSSI, L.**
- MAGLIONE, A. A.** See **BORRELLI, F. J.**
- MAGNIFICATION TECHNIQUES.** See Roentgen Rays, technic
- MAHONEY, J. P.** See **BUSH, J. A.**
- MALETSKOS, C. J.** See **LOONEY, W. B.**
- MALLET-GUY, PIERRE, and ROSE, J. DUDFIELD:** Pre-operative manometry and radiology in biliary tract disorders (ab), May, 775
- MALSKY, STANLEY.** See **ROSWIT, BERNARD**
- MANDEL, WILLIAM, GAINES, L. M., Jr., and MARILEY, R. J., Jr.**: Evaluation of oral cholecystography in liver disease (ab), Jan., 134
- MANN, LAWRENCE S., KIRSH, ISRAEL E., EISEN, JESSE, and FAMILARO, JOHN E.**: The roentgenogram in perforated peptic ulcer (ab), Feb., 291
- MANNIX, EDGAR P., Jr.** See **LYONS, HAROLD A.**
- MANOMETRY.** See Biliary Tract
- MARCHETTA, FRANK C., and MATTICK, WALTER L.**: Carcinoma of the tongue. Treatment and results without radical surgery (ab), June, 907
- MARCHETTO, INNOCENZO.** See **LENTINO, WALTER**
- MARCUS, PHILIP I.** See **PUCK, THEODORE T.**
- MARFAN'S SYNDROME**
- cardiovascular changes in dystrophia mesodermalis congenita Marfan (ab), P. Amundsen and I. Holter, March, 441
- MARGOLIS, G., TARAZI, A. K., and GRIMSON, K. S.**: Contrast medium injury to the spinal cord produced by aortography. Pathologic anatomy of the experimental lesion (ab), May, 770
- MARGULIS, ALEXANDER R.** See **NICE, CHARLES M., Jr.**
- MARILEY, R. J., Jr.** See **MANDEL, WILLIAM**
- MARINELLI, L. D.** See **GUSTAFSON, P. F.**
- See **MILLER, C. E.**
- MARINO, CARLO:** Brief clinical consideration of the pathogenesis of "functional" atelectasis (ab), Jan., 126
- MARKOWITZ, H. A.** See **DUDLEY, H. C.**
- MARMOLEJO, AUGUSTO.** See **ARANGO, ORIO**
- MARSHAK, RICHARD H., BLUM, S. DANIEL, and ELIASOPH, JOAN:** Pneumatosis involving the left side of the colon (ab), June, 897
- and **ELIASOPH, JOAN:** Pneumatosis coli (ab), Jan., 133
- MARTIN, F. A.** See **WEBSTER, J. E.**
- MARTINEZ FABRE, CARLOS.** See **GARCIA CASTAÑEDA, MAXIMO**
- MARTNER, EDGAR E., CORRIGAN, KENNETH E., CHARBENEAU, HAROLD P., and SOSIN, ALLEN:** A study of the uptake of iodine (I-131) by the thyroid of premature infants (ab), Feb., 309
- MARVIN, JAMES F.** See **KAISER, IRWIN H.**
- MASS SURVEYS.** See Breast, cancer; Mediastinum, cysts; Tuberculosis, pulmonary, mass roentgenologic surveys
- MATAS, MATTHEW.** See **MELTZER, HERBERT**
- MATHEWS, WILLIAM H.** See **MILLS, EDWARD S.**
- MATSCHEKE, SIEGFRIED.** See **EICHORN, HANS-JÜRGEN**
- MATTICE, WALTER L.** See **MARCHETTA, FRANK C.**
- MAUDSLAY, ROY H., and STANSFELD, ALFRED G.**: Non-osteogenic fibroma of bone (fibrous metaphyseal defect) (ab), June, 898
- MAURER, H.-J.**: Moving field therapy of gynaecological tumours in the pelvis (ab), June, 909
- MAXWELL, DAVID M. W.**: Granulosa cell tumor producing symptoms four years following radium menopause (ab), Feb., 312
- MAXWELL, GEORGE M.** See **ROWE, GEORGE G.**
- MAYO, HENRY W., Jr.** See **ASHMORE, J. D.**
- MEANEY, THOMAS F., and HAYS, ROBERT A.**: Roentgen manifestations of psoriatic arthritis, March, 403
- MECONIUM**
- meconium ileus, Ronald E. Herson, April, 568
  - meconium ileus; clinical study of 20 surviving patients (ab), Harry Shwachman et al., Jan., 132
  - meconium plug syndrome (ab), H. William Clatworthy, Jr., et al., March, 448
- MEDIASTINUM**
- congenital anomalies of large mediastinal vessels (ab), Franco Chiarotti and Carlo Picchio, Feb., 289
  - pendular motion of mediastinum (ab), Philip Samet and William Anderson, April, 602
- cancer**
- mediastinal parathyroid carcinoma with metastases; report of case and review of literature, Irving Weissman, James P. Worden and James M. Christie, March, 352
- cysts**
- branchiogenic intrathoracic mediastino-thymic cyst (ab), Z. V. Skokan and J. Stolz, May, 767
  - mediastinal tumors and cysts (discovered by routine mass radiography) (ab), N. Ringertz and S. O. Lidholm, Feb., 286
- roentgenography.** See also Mediastinum, tumors
- mediastinal pneumography (ab), Harold J. Isard et al., Feb., 285
  - modification of routine lateral view of chest to permit visualization of superior mediastinum (ab), Walter Lentino et al., Feb., 285
- tumors**
- bi-lateral roentgenkymography: aid in differential diagnosis of solid mediastinal tumor and aneurysm (ab), Martin Schneider and Jorge Ceballos, Feb., 286
  - in children (ab), Edward B. Singleton and E. Wiley Biles, June, 891
  - mediastinal tumors and cysts (discovered by routine mass radiography) (ab), N. Ringertz and S. O. Lidholm, Feb., 286
  - posterior hemangiomas, S. B. Feinberg, Jan., 90

- MEGACOLON.** See Colon, dilatation
- MEGALOURTER.** See Ureters, dilatation
- MEIJER, J. W. A.** See **STANBURY, JOHN B.**
- MELLINS, HARRY Z.** See **BERK, J. EDWARD**
- MELTZER, HERBERT, KOVACS, LESLIE, ORFORD, THOMAS, and MATAS, MATTHEW:** Echinococcosis in North American Indians and Eskimos. (ab), May, 765
- MELTZER, JAY I.:** Pericardial effusion in generalized scleroderma (ab), Feb., 287
- MENINGES**
- anatomy of subarachnoid cisterns (ab), B. Liliequist, May, 753
  - changes in size of subarachnoid spaces after insufflation of air (ab), Jan Jirout, May, 753
  - contribution to methods of filling posterior fossa and adjoining cervical subarachnoid space with small quantities of air (ab), H. Verbiest, June, 883
  - diagnostic value of encephalographic examination of subarachnoid space (ab), Giovanni Ruggiero, May, 753
  - meningoencephalitis due to Brucella abortus (ab), P. Ebeling and E. Graeme Robertson, April, 600
  - subdural collections of fluids in infants and children. II Study with radioactive sodium phosphate ( $P^{32}$ ) (ab), R. M. N. Crosby and Robert E. Bauer, Jan., 121
- tumors**
- radiologic diagnosis of intraventricular meningiomas (ab), Bengt Falk, May, 759
- MENINGIOMAS.** See Meninges, tumors
- MENINGOENCEPHALITIS.** See Meninges
- MENOPAUSE**
- granulosa-cell tumor producing symptoms 4 years following radium menopause (ab), David M. W. Maxwell, Feb., 312
  - radiation menopause or hysterectomy. Part II. Mortality, morbidity, and subsequent pelvic cancer (ab), A. C. Turnbull, Feb., 305
- MERCAPTOETHYLAMINE.** See Roentgen Rays, injurious effects
- MERRILD-HANSEN, B.** See **BOESEN, IB**
- MERTEN, CHARLES W., FINBY, NATHANIEL, and STEINBERG, ISRAEL:** Antemortem diagnosis of syphilitic aneurysm of the aortic sinuses. Report of nine cases (ab), Jan., 129
- MESODERMAL TISSUE**
- cardiovascular changes in dystrophia mesodermalis congenita Marfan (ab), P. Amundsen and I. Holter, March, 441
- MESOTHELIOMA.** See Tumors, mesothelioma
- METABOLISM**
- See also Blood, lipoproteins; Copper
  - proton irradiation of pituitary and its metabolic effects; Memorial Fund lecture, Rollin K. McCombs, June, 707
- METZGER, J.** See **FISCHGOLD, H.**
- MEURK, M. L., JACOBSON, A., and SCHULTZ, R. J.:** Dosimetry of interstitial implants, Feb., 256
- MEYER, LEO M.:** Blood volume determinations with radioactive chromium ( $Cr^{51}$ ) labeled erythrocytes. Feasibility of routine total red blood cell volume determinations in a general hospital (ab), Feb., 311
- MIALL, W. E.** See **COCHRANE, A. L.**
- MIDDLEMISS, J. H.** See **BROWN, J. SCOTT**
- MIKULICZ'S DISEASE; MIKULICZ'S SYNDROME.** See Salivary Glands
- MILITARY MEDICINE**
- malabsorption syndrome in military personnel in Puerto Rico (ab), Frank H. Gardner, May, 772
- MILLAR, OWEN, and MacDONALD, J. C. F.:** Radioactive gold in malignant effusions (ab), March, 470
- MILLER, C. E., MARINELLI, L. D., and STEINGRABER, O. J.:** Analysis of the  $Cs^{137}$  content in man due to radioactive fallout, Jan., 105
- MILLER, C. PHILLIP.** See **HAMMOND, CAROLYN W.**
- MILLER, D. V.** See **BOREN, H. G.**
- MILLER, EARL.** See **BOLDREY, EDWIN**
- MILLER, J. E.** See **BROOKS, FRED**
- MILLER, JAY.** See **SUSSMAN, RALPH M.**
- MILLER, R. M.** See **HUGHES, H. A.**
- MILLER, WILLIAM, and KENNEDY, ROBERT J.:** Attenuation of 86- and 176-Mev synchrotron x-rays in concrete and lead (ab), April, 636
- MILLS, EDWARD S., and MATHEWS, WILLIAM, H.:** Interstitial pneumonitis in dermatomyositis (ab), Feb., 284
- MILLS, W. A.** See **UPTON, A. C.**
- MINES AND MINERS**
- chronic bronchitis, emphysema, and bronchial spasm in bituminous coal workers; epidemiological study (ab), John Pemberton, May, 763
- MIOKON.** See Pylography
- MITCHELL, DAVID J.:** Basic combined cholecystangiography (ab), Jan., 136
- MITCHELL, NATHAN.** See **RABINOVITCH, JACOB**
- MITCHELL, ROBERT E., Jr., TITTLE, C. ROBERT, and BOCKUS, H. L.:** Nephrocalcinosis in patient with duodenal ulcer disease. Report of a case associated with parathyroid adenoma (ab), April, 615
- MITCHELL, T. G.** See **DUDLEY, H. C.**
- MITCHUM, WILLIAM R., and BRADY, BOYER M.:** Differential diagnosis of fibrosing lung lesions, Jan., 36
- MITRAL VALVE**
- angiocardigraphic observations of intracardiac flow in the normal and in mitral stenosis (ab), Louis A. Soloff et al, Jan., 128
  - angiopulmographic study of lesser circulation in mitral stenosis (ab), A. Actis-Dato et al, May, 768
  - basal horizontal lines on chest radiographs: significance in heart disease (ab), R. E. Rossall and A. J. Gunning, April, 603
  - late follow-up study of radiologic changes after valvuloplasty (ab), John E. Gary, March, 441
  - mitral stenosis associated with anomalous pulmonary venous drainage into left superior vena cava (ab), M. M. Zion, March, 441
  - mitral-valve disease: radiologic approach to physiologic diagnosis (ab), James B. Dealy, Jr., March, 441
  - radiographic estimation of pulmonary artery pressure in mitral valvular disease, George Jacobson, Leonard H. Schwartz and Marcy L. Sussman, Jan., 15
  - status of 50 patients four and a half to seven years after mitral commissurotomy (ab), O. Henry Janton et al, June, 801
  - systolic expansion or aorto-diastolic displacement. Roentgenkymographic study of left atrial movements in mitral cardiopathy (ab), F. Dalith, Jan., 128
  - transventricular and aortic angiocardiology and physiologic studies in dogs with experimental mitral and aortic insufficiency (ab), Robert J. Wilder et al, May, 771
- MOBERG, CARL H.** See **BROWN, CHARLES H.**
- MOE, JOHN H.** See **SABANAS, ALVINA O.**
- MOERSCH, HERMAN J.** See **HABEIN, HAROLD C., Jr.**
- MOIR, T. W., PRITCHARD, W. H., and FORD, A. B.:** Early disappearance of  $I^{131}$  serum albumin from the circulation of edematous subjects and its implications in the clinical determination of the blood volume (ab), March, 469
- MOLLIN, D. L.** See **BOOTH, C. C.**
- MOLLURA, JOSEPH L., and GOLDFEDER, ANNA:** Alkaline phosphatase activity in various mouse tissues following total body x-irradiation (ab), June, 917
- MOLNAR, WILLIAM.** See **CRAWFORD, PATRICK**
- MOLOSHOK, RALPH E., and MOSELEY, JOHN E.:** Familial dysautonomia: pulmonary manifestations (ab), Jan., 127
- MONGOLISM**
- mongolism (mongoloid deficiency) during early infancy—some newly recognized diagnostic changes in pelvic bones (ab), John Caffey and Steven Ross, March, 456
- MONROE, JAMES.** See **ZINN, BERKELEY**
- MOORE, LOLITA.** See **GERSHON-COHEN, J.**
- See **INGLEBY, HELEN**
- MOORE, THOMAS C.:** Congenital intrinsic duodenal obstruction. Report of 32 cases (ab), June, 895
- MOORE, VINCENT, GAMBLE, DEAN, and LIBBY, RAYMOND L.:** Experiences with radioactive chromic phosphate in urological tumors (ab), Feb., 311
- MOOS, W. S.:** Basic aspects of radiation theory (ab), April, 622
- FULLER, J. B., HENDERSON, W. J., DALLENBACH, F., and HARVEY, R. A.:** Lethal effects on rats of single multiple exposures of 400-kv and 22-Mv x-radiation (ab), Feb., 313
- See **SANDBERG, GLEN**
- MORALES, GEORGE.** See **KOVACH, JOHN C.**
- MORGAGNI'S FORAMEN.** See Hernia, diaphragmatic
- MORGAN, JASPER E.** See **ELLINGER, FRIEDRICH**
- MORPHINE**
- advantages and disadvantages of morphine effect combined with Bilagrafin examination (ab), A. Boris and P. Lörinc, Jan., 136
  - bile ducts of cholecystectomized patients with and without dyskinesia before and after morphine injection. Preliminary report (ab), Eric Gunnarson, Feb., 294
  - pharmacoradiography of stomach (ab), J. Pfeiffer, Feb., 292
- MORRIS, C.** See **COPE, E.**
- MORRIS, SASHA R.** See **FORREST, A. P. M.**
- MORRISON, M. T.** See **JOHNS, H. E.**
- MORRISON, R., NEWBERRY, G. R., and DEELEY, T. J.:** Preliminary report on the clinical use of the Medical Research Council 8 MeV linear accelerator (ab), Feb., 307
- MOSCOVITZ, L.** See **WILDER, ROBERT J.**
- MOSELEY, JOHN E.:** Radiographic demonstration of choledochal cyst by oral cholecystography, June, 849
- See **MOLOSHOK, RALPH E.**
- MOSSER, DONN G.** See **ENGELS, EDWARD P.**
- MOSTOFI, F. K.:** A study of 2678 patients with initial carcinoma of the bladder: I. Survival rates. II. Survival rates in relation to therapy (ab), Jan., 146
- MOULON, MARIO.** See **CICERO, RAÚL**
- MOUNT, LESTER A., and TAVERAS, JUAN M.:** Cerebral angiographic studies following surgical treatment of intracranial aneurysms. Angiographic evaluation of results (ab), June, 882
- MOVING FIELD THERAPY.** See Roentgen Therapy; Uterus, cancer
- MOVIUS, HERBERT J.** See **ISAAC, FRANK**
- MOWATT, KEITH S., and STEVENS, KEITH, A.:** Afterloading—a contribution to the protection problem (ab), May, 787
- MOXON, C. P.** See **DIMANT, STEVENS**
- MUCOSOGRAPHY.** See Lungs, cancer
- MUCOUS MEMBRANES**
- irradiation of advanced cancer of head and neck through grid. Part I. Study of absorbed dose by observation of skin and mucosal reactions, Milton Friedman and Alexander W. Pearlman, June, 852
- MÜLLER, O.** See **AMUNDSEN, A. K.**
- MUETHER, RAYMOND O.** See **SMOLIK, EDMUND A.**

- MUGLER, FREDERICK R., Jr.** See **BAUER, FRANZ K.**
- MULLAN, JOHN F.** See **HARPER, PAUL V.**
- MULLER, W. H.**: Otto pelvis. Report of two cases associated with labour (ab), April, 614
- MUMPS**. See Salivary Glands
- MUNISWAMY, M.** See **REDDY, D. J.**
- MURISON, C. A., and HUGHES, H. A.**: Physical measurements on a 4-MEV linear accelerator, March, 367
- MURPHY, D. J. L.** See **DON, CONWAY**
- MURPHY, THOMAS O., SANDHAUS, SOL, and RYAN, JOSEPH M.**: Congenital peripheral arteriovenous communications. Use of femoral artery to heart circulation time in diagnosis (ab), June, 893
- MURPHY, WALTER T.**: Primary vaginal cancer: irradiation management and end-results, Feb., 157
- MUSCLES**  
—See also Dystrophy, Muscular  
—abnormal swallowing in central-nervous-system and neuromuscular disease (ab), Maxwell H. Poppel et al, Jan., 123  
—bone, joint and soft tissue changes (ossification of muscle) following paraplegia (ab), Thomas Lodge, May, 780
- MYCOSIS**  
—See also Aspergillosis; Blastomycosis; Coccidioidomycosis; Histoplasmosis and Histoplasmosis; Nocardiosis  
—joint and bone disease due to mycotic infection (ab), Elam C. Toome, Jr., and John Kelly, Jan., 138
- MYELOGRAPHY**. See Spinal Canal Roentgenography; Spine, intervertebral disks
- MYELOMA**. See Bones, marrow
- MYERS, GORDON D.** See **SHEK, JOHN L.**
- MYHRE, JON R.**: Arteriovenous fistula of the renal vessels. A case report (ab), June, 903
- MYOCARDIUM**. See Heart
- MYOSITIS**. See Dermatomyositis
- N**
- NADOLNY, G.**: Teleroentgenotherapy in the treatment of neoplastic metastases (ab), Jan., 147
- NAGAREDA, C. SUSAN**. See **HIRSCH, BARBARA B.**
- NAGLE, W. WILLIAM, HOPE, JOHN W., and BONGIOVANNI, ALFRED M.**: Congenital goiter, April, 526
- NAKAYAMA, KOMEI**: Diagnostic significance of radioactive isotopes in early cancer of the alimentary tract, especially the esophagus and the cardia (ab), April, 630
- Pancreaticosplenectomy combined with gastrectomy in cancer of the stomach (ab), June, 894
- NASH, FRANCIS P.** See **SMOLIK, EDMUND A.**
- NATIONAL BUREAU OF STANDARDS**  
—addendum to Radiation Handbook 60, June, 872  
—new Radiation Handbook (62), June, 872  
—x-ray studies of photographic film; National Bureau of Standards, U. S. Department of Commerce, March, 422
- NATIONAL COMMITTEE ON RADIATION PROTECTION**  
—maximum permissible radiation exposures to man; preliminary statement, Feb., 260; addendum to Radiation Handbook 60, June, 872
- NAVICULAR BONE**. See Scaphoid Bone, Carpal
- NECK**  
—granuloma of neck following thorotrast angiography (ab), Laurence F. Levy, March, 436  
—irradiation of advanced cancer of head and neck through a grid. I. Study of absorbed dose by observation of skin and mucosal reactions, Milton Friedman and Alexander W. Pearlman, June, 852
- NEEDY, CARL**. See **CARTER, JOHN H.**
- NEGROES**  
—bone changes in Kaposi's sarcoma; analysis of 15 cases occurring in Bantu Africans (ab), A. G. M. Davies, May, 779  
—dysplasia epiphysealis multiplex; case in Bantu child (ab), E. Cope et al, May, 779
- NELSON, ROBERT E.** See **SPENSLEY, ROBERT D.**
- NELSON, SIDNEY W.**: Large pneumothorax and associated massive collapse of the homolateral lung due to intrabronchial obstruction. A case report, March, 411
- NELSON, THOMAS G., and BOWERS, WARNER F.**: Volvulus of the cecum and sigmoid colon. An analysis of nine cases (ab), Feb., 292
- NEMET, A., and COX, W. F.**: Improvement of definition by x-ray image magnification (ab), April 618
- NEO-IOPAX**. See Cardiovascular System, roentgenography; Pyelography
- NEPHROCALCINOSIS**. See Kidneys
- NEPHROGRAPHY**. See Pyelography
- NERVES**  
—See also Nervous System, Sympathetic; Paraplegia  
—acoustic  
—segmental radiography of internal auditory canal in neurinomas of eighth nerve (ab), H. Fischgold et al, May, 761  
—eighth. See Nerves, acoustic  
—trigeminal  
—cerebral angiography in encephalo-trigeminal angiomas, Charles M. Poser and Juan M. Taveras, March, 327
- NERVOUS SYSTEM**. See Brain; Cerebellum; Nerves; Nervous System, Sympathetic; Spinal Cord; Tumors, neuroblastoma
- NERVOUS SYSTEM, SYMPATHETIC**  
—See also Sympathectomy  
—familial dysautonomia; pulmonary manifestations (ab) Ralph E. Moioshok and John E. Moseley, Jan., 127  
—roentgenographic findings in familial dysautonomia, Rob H. Kirkpatrick and Conrad M. Riley, May, 654  
—tumors. See also Tumors, neuroblastoma  
—radiologic picture of intrathoracic tumors (ab), Leonardo Papagni, March, 439
- NESBIT, REED M.**: Diagnosis of intermittent hydronephrosis: importance of pyelography during episodes of pain (ab), March, 457
- NESBITT, TOM E., BOURNE, N. W., and BABBITT, D. P.**: Hypaque Sodium, a new urographic contrast medium (ab), June, 904
- NETSKY, MARTIN G., SHAPIRO, JEROME, HOFFMAN, MARILLYN, CORSENTINO, B., FREID, J. R., and ZIMMERMAN, H. M.**: Effect of single doses of roentgen radiation on experimentally induced gliomas: with a critical review of the effects of roentgen radiation on gliomas in man (ab), June, 917
- NEUMSCHWANDER, H., and RENFER, HANSRUDOLPH**: Contributions to cerebral angiography (ab), May, 758
- NEURALGIA**  
—roentgenographic findings in trigeminal neuralgia (ab), W. James Gardner et al, June, 885
- NEURINOMAS**. See Tumors, neuroblastoma
- NEUROBLASTOMA**. See Tumors, neuroblastoma
- NEUTRONS**  
—comparative mortality following single whole-body exposures of mice to fission neutrons and  $Co^{60}$  gamma rays, Howard H. Vogel, Jr., John W. Clark and Donn L. Jordan, March, 386  
—cyclotron neutron and  $\gamma$ -ray dosimetry for animal irradiation studies (ab), E. Tochlin et al, Feb., 316  
—effects of total-body fast neutron irradiation in dogs, (ab), V. P. Bond et al, Feb., 316  
—neutron capture therapy: slow neutron depth distribution measurements in tissue (ab), E. E. Stickley, Jan., 156  
—neutron-insensitive gamma-ray dosimeter, R. S. Caswell, Jan., 101  
—relative biological effectiveness of fast neutrons in mice (ab), R. E. Carter et al, April, 634  
—relative biological effectiveness of fast neutrons, x-rays, and  $\gamma$ -rays for acute lethality in mice (ab), A. C. Upton et al, Feb., 316
- NEVIASER, JULIUS S., and EISENBERG, SANFORD H.**: Diagnostic and therapeutic obstacles encountered in tibial plateau fractures (ab), April, 613
- NEVILLE, JOHN F., Jr.** See **FORD, WILLIAM B.**
- NEWBERY, G. R.** See **MORRISON, R.**
- NG, ELMER, and LOW-BEER, BERTRAM V. A.**: Treatment of Wilms' tumor (ab), April, 621
- NICE, CHARLES M., Jr.**: Relation of tumor size to radioresistance, April, 555
- See **GUNDERSEN, GUNNAR A.**
- MARGULIS, ALEXANDER R., and RIGLER, LEO G.**: A simple approach to the roentgen diagnosis of abdominal tumors in infants and children (ab), March, 459
- NICHAMIN, SAMUEL J.**: Kartagener's syndrome in a newborn infant (ab), May, 766
- NICHOLS, POMEROY, Jr.** See **SMITH, GEORGE W.**
- NICOLAI, CHARLES H.**: Major reactions to intravenous urographic media (ab), June, 904
- Miokon, a new intravenous urographic medium (ab), Feb., 299
- NICOLAI, K. H.** See **HEITE, H.-J.**
- NIELSEN, O., STEINICKE, and RØELSGAARD, M.**: Roentgenologically demonstrable gastric abnormalities in cases of previous congenital pyloric stenosis (ab), Feb., 290
- NIMS, L. F., and GEISELSOBER, J. L.**: Responses to whole-body x-irradiation in the starved rat (ab), May, 795
- NINHYDRIN-REACTIVE COMPOUNDS**. See Roentgen Rays, effects
- NOCARDIOSIS**  
—case report and review of literature, Gunnar A. Gundersen and Charles M. Nice, Jr., Jan., 31  
—pulmonary nocardiosis; review with report of 7 cases (ab), D. H. Webster, Feb., 285
- NOEL, R. D.** See **ADAMS, JOHN D.**
- NOGUÉS, ARMANDO E.** See **AHUMADA, JUAN C.**
- NOMOGRAMS**. See Radium, therapy
- NORDENSTRÖM, BJÖRN**. See **FIGLEY, MELVIN M.**
- NORMAN, OLOF**: Angiographic differentiation between acute and chronic subdural and extradural haematomas (ab), May, 756
- NORTH, JOHN P., LIVINGSTON, SHIELDS O., and LOVELL, B. K.**: Spontaneous renoduodenal fistula (ab), April, 609
- NOSE**  
—clinical and radiological study of choanal polyp (ab), D. F. Reynolds and H. J. Groves, Feb., 279  
—treatment of cancer of nasal cavity and paranasal sinuses (ab), James W. Hendrick, Jan., 143
- NOTTER, GUSTAF**: Management of malignant testicular tumors at the Radiumhemmet in Stockholm. Report on 247 patients (ab), April, 621
- NUCLEAR RADIATION**. See Protons
- NUCLEOGRAPHY**. See Spine, intervertebral disks
- NUSSBAUM, ARNOLD**. See **ROSENBLUM, DAVID**
- NYHAN, WILLIAM L., Jr.** See **GREEN, MORRIS**
- O**
- OBITUARIES**  
Crosby, Leonard Green, May, 747

## OBITUARIES—cont.

- Evans, William Albert, Feb., 271  
 Graham, Everts A., May, 747  
 Hinkel, L. Charles, Feb., 272  
 Kirkin, Eyril Raymond, June, 876  
 Pfahler, George Edward, April, 590  
 Reuter, Frederic W., Jan., 113
- O'BRIEN, RICHARD G. See WISE, ROBERT E.
- OBSTETRICS. See Pelvis; Placenta; Pregnancy
- OCHSNER, SEYMOUR, and PENICK, RAWLEY M., Jr.: Hemangioma of the small intestine, June, 845
- O'CONNOR, SYLVESTER J., and JACKNOW, ALBERT S.: Posterior dislocation of the shoulder (ab), Feb., 297
- O'CONOR, VINCENT J. See BULKLEY, GEORGE J.
- ODONTOID PROCESS. See Atlas and Axis
- OESTER, Y. T. See FIELDS, THEODORE
- OKAWA, CHYIKO, and TROMBKA, J. I.: The technic of making microangiograms of rabbit bone marrow (ab), June, 907
- O'LEARY, DENIS J., and CURRY, FRANCIS J.: Coccidioidomycosis. A review and presentation of 100 consecutively hospitalized patients (ab), Feb., 284
- OLSEN, NORMAN S. See RUDOLPH, GUILFORD G.
- OLSON, B. WESLEY. See BELL, ROBERT L.
- OLSON, KENNETH B. See HALL, CHARLES A.
- O'NEIL, LAWRENCE J. See LaCOUR, EDWARD G.
- OPHTHALMOLOGY. See Eyes; Orbit; etc.
- OPPENHEIMER, M. J., DURANT, T. M., STAUFFER, H. M., STEWART, G. H. III, LYNCH, P. R., and BARRERA, FRANK: In vivo visualization of intracardiac structures with gaseous carbon dioxide. Cardiovascular-respiratory effects and associated changes in blood chemistry (ab), June, 893
- OPTIC CHIASM  
 —normal variations in position of optic recess of third ventricle (ab), James Bull, May, 753
- ORAVISTO, E. J., and SCHAUMAN, S.: Urethrocytography in the differential diagnosis of prostatic cancer (ab), April, 615
- ORBIT  
 —congenital defect of bony orbit and pulsating exophthalmos (ab), Hooshang Tayebi and Frederic N. Silverman, June, 886  
 —roentgen signs of space-occupying lesions of orbit (ab), L. Psenner, June, 885
- ORFORD, THOMAS. See MELTZER, HERBERT
- ORLOFF, MARSHALL J.: Intussusception in children and adults. Collective review (ab), Feb., 293
- ORR, LOUIS M. See THOMLEY, MILES W.
- ORTON, K. F.: Rotation therapy with a 2 McV Van de Graaff generator (ab), Feb., 307
- "OS SUBCLAVICULARE." See Clavicle
- OSBORN, S. B., and SMITH, E. E.: The genetically significant radiation dose from the diagnostic use of x-rays in England and Wales. A preliminary survey (ab), May, 793
- OSBORNE, G., PATTINSON, J. N., and WARD, M. W. P.: Value of the lateral view of the rectosigmoid (ab), Feb., 293
- OSBORNE, J. C., and KOWALEWSKI, K.: The uptake of radiolabeled sulfur in the fractured humerus in the rat (ab), May, 790
- OSBORNE, JAMES W.: Prevention of intestinal radiation death by removal of the irradiated intestine (ab), April, 634
- OSHEROFF, H. R.: Teaching aids for instruction in radiologic study of the gastrointestinal tract (ab), April, 610
- OSTIFICATION. See Muscles
- OSTEITIS  
 See also Pubic Bone
- fibrosa**  
 —adenoma of parathyroid gland associated with osteitis fibrosa cystica (ab), D. J. Reddy et al, May, 778
- OSTEOCHONDRITIS**  
 —bilateral osteochondritis of middle cuneiform bone; case, Ivor P. Smyth, April, 575  
 —osteochondritis ischiopubica (ab), Lars R. Holsti, Jan., 140
- deformans juvenilis**  
 —coxa plana in dizygotic male twins (ab), Paul S. Derian, May, 783
- dissecans**  
 —of ankle joint; case simulating fracture of talus (ab), Bruce M. Cameron, May, 784
- OSTEOCHONDROSES.** See Bones, abnormalities
- OSTEODYSTROPHY.** See Bones, atrophy
- OSTEOGENESIS IMPERFECTA.** See Bones, fragility
- OSTEOMA.** See Tumors, osteoma
- OSTEOMYELITIS**  
 See also Spine  
 —acute hematogenous osteomyelitis (ab), Morris Green et al, Jan., 138  
 —osteomyelitis and sarcoma (ab), F. De Witte, Jan., 139
- OSTEOPOROSIS.** See Bones, pathology
- OSTIUM PRIMUM.** See Heart, abnormalities
- OTTO PELVIS.** See Acetabulum
- OTTOLENGHI, ATHOS.** See BERNHEIM, FREDERICK
- OTTOMAN, R. E.** See WOODRUFF, J. H., Jr.
- OUTEIRO, FERNANDO.** See PINHEIRO, ARMANDO
- OVARY**  
 —protection of ovaries from radiation (ab), Richard Batten and D. E. Meredith Brown, May, 791
- cancer**  
 —experience with radioactive colloidal gold in treatment of carcinoma (ab), William C. Keetzel and H. B. Elkins, Jan., 151  
 —radioactive gold in treatment of carcinoma (ab), H. B. Elkins and William C. Keetzel, April, 628
- tumors**  
 —granulosa-cell tumor producing symptoms 4 years following radium menopause (ab), David M. W. Maxwell, Feb., 312  
 —radiosensitivity of granulosa-cell tumor of ovary (ab), Basil A. Stoll, April, 620
- OVERBECK, L.** See SCHUBERT, G.
- OVUM.** See Embryo
- OWEN, CHARLES A., Jr.** See COOPER, MILTON
- See McCONAHEY, WILLIAM M.
- OWEN, MORRIS:** A device for the localization of dental remnants in edentulous regions, April, 582
- OWEN, TREVOR, and LENCZNER, MICHAEL:** Generalized cysticercosis with cerebral infestation (ab), June, 884
- OXYGEN**  
 —influence of x-ray on oxygen consumption of spleen and thymus glands of rats (ab), Maurice F. Sullivan and Kenneth P. DuBois, Feb., 314
- P**
- PACATAL HYDROCHLORIDE**  
 —new drugs for irradiation sickness, Basil A. Stoll, March, 380
- PADOVAN, IVO, and PAVAO, FRANK:** Concerning the technic of irradiation with radioactive cobalt (ab), Jan., 151
- PALAMIDESSI, CARLO:** Middle lobe atelectasis of neuro-reflex origin (?) (ab), Jan., 126
- PALSY.** See Pharynx
- PANCREAS**  
 —pancreaticosplenectomy combined with gastrectomy in cancer of stomach (ab), Komei Nakayama, June, 894
- cancer**  
 —intravenous cholangiography as aid in diagnosis of carcinoma of head of pancreas, George Levene and Saul Scheff, May, 714  
 —isotope implant therapy for internally situated tumors (ab), Paul V. Harper et al, May, 787  
 —roentgenologic findings in stomach and duodenum in cancer of pancreas (ab), Kaare A. Larsen and Arne Pedersen, April, 608
- cysts**  
 —unusual case of Lindau's disease: cystic disease of kidneys and pancreas with renal and cerebellar tumors (hemangioma) (ab), Frank Isaac et al, March, 460
- inflammation**  
 —acute pancreatitis: preliminary investigation of new radio-diagnostic sign (ab), Charles Stuart, May, 773  
 —cholangiographic diagnosis of pancreatitis (ab), Maurice D. Sachs and Philip F. Partington, June, 897
- PANCREATITIS.** See Pancreas
- PANTOMOGRAPHY.** See Body-Section Roentgenography
- PAPAGNI, LEONARDO:** Radiologic picture of intrathoracic tumors of the sympathetic nervous system (ab), March, 439
- PAPU, I.** See COLUMELLA, F.
- PARALYSIS.** See Paraplegia; Spine, curvature
- PARAPLEGIA**  
 —bone, joint and soft-tissue changes following paraplegia (ab), Thomas Lodge, May, 780  
 —paraplegia secondary to abdominal aortography (with use of Urokon) (ab), Joseph G. McCormack, April, 605
- PARASITES.** See Ascariasis; Porocephalosis
- PARATHYROID**  
 —radiological manifestations of hyperparathyroidism (ab), J. G. Duncan, March, 460
- cancer**  
 —mediastinal parathyroid carcinoma with metastases: report of case and review of literature, Irving Weissman, James P. Worden and James M. Christie, March, 352
- tumors**  
 —adenoma of parathyroid gland associated with osteitis fibrosa cystica (ab), D. J. Reddy et al, May, 778  
 —nephrocalcinosis in patient with duodenal ulcer disease: case associated with parathyroid adenoma (ab), Robert E. Mitchell, Jr. et al, April, 615
- PARIETAL BONE.** See Cranium
- PARKER-PATERSON SYSTEM.** See Radium, therapy
- PARKHILL, URIE A.** See GIESELMAN, RALPH V.
- PAROTID GLANDS.** See Salivary Glands
- PARTINGTON, PHILIP F.** See SACHS, MAURICE D.
- PASSERINI, A.** See LOMBARDI, G.
- PASTOR, BERNARD H.** See HOLLENDONNER, WERNER J.
- PATERSON, D. E.** See Bone changes in leprosy (ab), March, 453
- PATERSON, EDITH.** See HAIGH, MARY V.
- PATERSON-PARKER SYSTEM.** See Radium, therapy
- PATRY, R., and GUEUKD'JIAN, S.:** Clinical and roentgen aspects of fracture cases (ab), March, 452
- PATTERSON, R. L., Jr.** See KING, P.
- PATTINSON, J. N.** See EMMANUEL, RICHARD W.
- See OSBORN, G.
- See SMART, JOSEPH
- PAULSON, DONALD L.:** Importance of the pulmonary nodule (ab), Jan., 125
- PAULSON, E. C.:** Radioiodine uptake in the diagnosis of thyroiditis (ab), June, 912
- See ENGELS, EDWARD P.
- PAVAO, FRANK.** See PADOVAN, IVO

- PEABODY, J. WINTHROP, Jr.** See **DAVIS, EDGAR W.**
- PEACHER, WILLIAM G.,** and **STORRS, RICHARD P.:** Roentgen diagnosis of herniated disk with particular reference to diskography (nucleography) (ab), June, 901
- PEARLMAN, ALEXANDER W.** See **FRIEDMAN, MILTON**
- PECTUS EXCAVATUM.** See **Thorax**
- PEDERSEN, ARNE.** See **LARSEN, KAARE A.**
- PEEBLES BROWN, D. A.** See **FORREST, A. P. M.**
- PEIFFER, J.** See **BREIT, A.**
- PÉLISSIER, M.** See **BÉTOULIÈRES, P.**
- PELLIZARI, O.** See **REMOLAR, JORGE**
- PELVIMETRY.** See **Pelvis, measurement**
- PELVIS**
- See also **Uterus, cancer**
  - fracture of femoral neck following irradiation of pelvis (ab), Edgar L. Ralston, May, 790
  - mongolism (mongoloid deficiency) during early infancy—some newly recognized diagnostic changes in pelvic bones (ab), John Caffey and Steven Ross, March, 456
  - Otto pelvis; 2 cases associated with labor (ab), W. H. Muller, April, 614
  - pneumoperitoneum in diagnosis of pelvic disease (ab), Godfrey L. Gale and R. H. Giffin, Jan., 141
  - radiation injury to small bowel with special consideration of surgical complications (ab), H. Harvey Peterson and Edwin G. Clausen, May, 791
  - unusual cystic lesion of bone, limited to pelvis and lower extremities. Osteogenesis imperfecta cystica?, Charles A. Bream and William H. Sprunt, III, Feb., 179
- blood supply**
- new radiologic methods in gynecology: aortography and pelvic arteriography (ab), L. Rossi and B. Maggipinto, Feb., 299
  - pelvic phlebography obtained by transosseous injection of contrast material (ab), A. Rabaiotti, Feb., 289
- measurement**
- new method of measurement of objects by x-rays with special reference to pelvimetry (ab), J. S. Collier, June, 906
- PEMBERTON, JOHN:** Chronic bronchitis, emphysema, and bronchial spasm in bituminous coal workers. An epidemiologic study (ab), May, 763
- PENICK, RAWLEY M., Jr.** See **OCHSNER, SEYMOUR**
- PEPTIC ULCER**
- hepatic cirrhosis and gastro-duodenal ulcer (ab), E. de Arzuza Zulaica, Feb., 291
  - incidence of benign gastric ulcers on greater curvature; presentation of 3 cases (ab), John H. Feist and Jesse T. Littleton, March, 446
  - nephrocalcinosis in patient with duodenal ulcer disease: case associated with parathyroid adenoma (ab), Robert E. Mitchell, Jr. et al., April, 615
  - peptic ulcer, partial gastrectomy, and pulmonary tuberculosis (ab), P. A. Thorn et al., Jan., 124
  - postbulbar peptic ulceration of duodenum (ab), Robert F. Rauch, May, 773
  - tubeless gastric analysis in study of acid secretion following gastric irradiation for peptic ulcer (ab), John T. Galambos and Joseph B. Kirsner, Feb., 306
- cancer and peptic ulcer**
- x-ray manifestations of early malignant gastric ulceration (ab), G. A. S. Lloyd, March, 446
- perforation**
- duodenal loop changes in posterior penetration of duodenal ulcer (ab), J. George Teplick, March, 447
  - roentgenogram in perforated ulcer (ab), Lawrence S. Mann et al., Feb., 291
- PEREZ-TAMAYO, RUHERI.** See **ETTINGER, ALICE**
- PERIARTERITIS NODOSA**
- circumscribed pulmonary lesions in periarteritis nodosa and Wegener's granulomatosis (ab), James V. Rogers, Jr. and Albert E. Roberto, May, 765
  - ulcerative jejunitis in polyarteritis, Alice Ettinger and Ruheri Perez-Tamayo, May, 669
- PERICARDITIS**
- pericardial effusion in generalized scleroderma (ab), Jay I. Meltzer, Feb., 287
- PERIFOLLICULITIS.** See **Scalp**
- PERIOSTEUM**
- juxtacortical chondroma (ab), Henry L. Jaffe, April, 610
  - rare bony and parosteal tumors in which radiotherapy is not indicated (ab), Willy Baensch, June, 909
- PERITONEUM**
- cancer**
- radioactive gold in malignant effusions (ab), Owen Millar and J. C. F. MacDonald, March, 470
  - radioyttrium (Y<sup>90</sup>) for palliative treatment of effusions due to malignancy (ab), Elsie P. Siegel et al., April, 630
  - therapy of serous cavity effusion with colloidal radioactive gold 198 (ab), Edward P. Engels et al., June, 913
- effusions.** See **Peritoneum, cancer**
- tumors**
- treatment of peritoneal and pleural mesothelioma and metastatic malignancy with radioactive colloidal gold (ab), F. M. Lyle and Philip S. King, April, 628
- PERLBERG, HARRY J.** See **COHEN, SAMUEL**
- PERRNOT, Mme.** See **ROUSSEL, J.**
- PERRINGS, JAMES D.** See **ANDERSON, ERNEST C.**
- PERRY, H. C.** See **STRICKLAND, PAUL**
- PERRY, JOHN F., Jr.,** **VOADRASHEK, STANLEY C.,** and **WANGENSTEEN, OWEN H.:** Recognition of strangulating intestinal obstructions with special reference to pneumoperitoneography (ab), April, 609
- PERUZZI, GASTONE, and RUFFATO, CESARE:** Radiology of aneurysms of the root of the superior mesenteric artery. Report of two cases (ab), March, 445
- PETERSON, H. HARVEY, and CLAUSEN, EDWIN G.:** Radiation injury to the small bowel with special consideration of surgical complications (ab), May, 791
- PETROVIC, F.:** Presence of foam in the cerebrospinal fluid in encephalography (ab), Jan., 122
- PETTIT, HAROLD S.** See **ASHMORE, J. D.**
- PFAHLER, GEORGE EDWARD** (obit), April, 590
- PFEIFFER, J.:** Pharmacoradiography of the stomach (ab), Feb., 292
- PHALANGES.** See **Fingers and Toes**
- PHARMACORADIOGRAPHY.** See **Stomach, roentgenography**
- PHARYNX**
- cancer**
- indications for radical surgery, partial surgery, radiotherapy and combined surgery and radiotherapy for cancer of larynx and hypopharynx (ab), Jean Leroux-Robert, Jan., 144
- paralysis**
- radiologic investigation of pharyngeal and laryngeal palsy (ab), G. M. Ardran and F. H. Kemp, May, 761
- roentgenography**
- contrast examination of larynx and pharynx, William E. Fowers, Harry H. McGee, Jr., and William B. Seaman, Feb., 169
  - radiology of pharyngo-esophageal region; Plummer-Vinson syndrome (ab), Victorino D'Alotto, Feb., 289
- PHELINE, CH. VIALLET, P., SENDRA, L., COMBE, P., CHEVROT, L., and AUBRY, P.:** Utilization of total simultaneous cerebral angiography by the intravenous route in the child (ab), May, 755
- PHEOCHROMOCYTOMA.** See **Tumors, pheochromocytoma**
- PHLEBOGRAPHY.** See **Brain, tumors; Pelvis, blood supply; Veins**
- PHOSPHAMIDASE.** See **Uterus, cancer**
- PHOSPHATASE**
- alkaline phosphatase activity in various mouse tissues following total-body x-irradiation (ab), Joseph L. Mollura and Anna Goldfeder, June, 917
- PHOSPHORUS.** See **Radioactivity, radiophosphorus**
- PHYSICIANS.** See **General Practice**
- PHYSICS**
- fellowships in radiological physics, May, 742
  - radiological physics fellowship, Sloan-Kettering Division, Cornell Medical College, March, 427
- PIAZZI, M.** See **SANTAGADA, A.**
- PICCHIO, CARLO.** See **CHIARIOTTI, FRANCO**
- PIETROLUONGO, ANTHONY L.** See **GARRITANO, ANTHONY P.**
- PINEAL GLAND**
- pinealoma with metastases in central nervous system. Rationale of treatment (ab), Fred D. Fowler et al., March, 462
- PINEALOMA.** See **Pineal Gland**
- PINHEIRO, ARMANDO, and OUTEIRO, FERNANDO:** A few cases of glandular-bronchial fistula (ab), Jan., 127
- PINTO, J. PORTUGAL.** See **GARDNER, W. JAMES**
- PIONNIER, R., and DEPAZ, A.:** Congenital rib anomalies. Statistical study of 10,000 roentgenograms (ab), March, 455
- PIRKEY, EVERETT L., and UNDEM, DALE:** Intestinal obstruction from the radiological point of view (ab), April, 609
- PIRSON, HERBERT S.** See **CULVER, GORDON J.**
- PITUITARY BODY**
- pituitary radon implant for advanced cancer (ab), A. P. M. Forrest et al., March, 462
  - proton irradiation of pituitary and its metabolic effects; Memorial Fund lecture, Rollin K. McCombs, June, 797
- PLACENTA**
- gravitational placentography, K. E. Hodge, May, 637
  - radiological study of placental stage of labor (ab), John MacPherson and John K. Wilson, April, 614
  - soft-tissue placentography in diagnosis of bicornuate uterus, Robert B. Engle, George Jacobson and Eleanor R. Fraser, March, 408
- PLEURA**
- pleuropulmonary tularemia: its roentgen manifestations, John M. Dennis and Robert P. Boudreau, Jan., 25
- cancer**
- radioactive gold in malignant effusions (ab), Owen Millar and J. C. F. MacDonald, March, 470
  - radioyttrium (Y<sup>90</sup>) for palliative treatment of effusions due to malignancy (ab), Elsie P. Siegel et al., April, 630
  - therapy of serous cavity effusion with colloidal radioactive gold 198 (ab), Edward P. Engels et al., June, 913
- effusions.** See **Pleura, cancer**
- hematoma**
- roentgenologic aspects of retropleural hematomas following sympathectomy, Saul Scheff, Wallace W. Bednarz and George Levene, Feb., 224
- tumors**
- treatment of peritoneal and pleural mesothelioma and metastatic malignancy with radioactive colloidal gold (ab), F. M. Lyle and Philip S. King, April, 628
- PLUMMER-VINSON SYNDROME.** See **Deglutition, disorders**
- PNEUMATOSIS.** See **Colon, cysts**
- PNEUMOCHELOCYSTITIS.** See **Gallbladder, diseases**

**PNEUMOCONIOSIS**

- differential diagnosis between aluminum lung and Boeck's sarcoid; correction of article by K. H. Ehreke (ab), F. Leicher, March, 438
- factors influencing radiological attack rate of progressive massive fibrosis (ab), A. L. Cochrane and W. E. Miall, March, 438

**PNEUMOCYSTIS**. See *Pneumonia***PNEUMOENCEPHALOGRAPHY**. See *Brain; Meninges***PNEUMOGRAPHY**

- See also *Brain, tumors; Pneumomediastinum; Pneumoperitoneum*
- air embolism during presacral pneumography; case (ab), Irving Glassman et al, Jan., 143
- serious complications associated with newer diagnostic methods in urology (retroperitoneal pneumography and aortography) (ab), William Baurys, March, 459

**PNEUMOMEDIASTINUM**

- mediastinal pneumography (ab), Harold J. Isard et al, Feb., 285

**PNEUMONIA**

- See also *Pneumonitis*
- local cartilaging necrotizing pneumonia and its differentiation from carcinoma of bronchus (ab), E. Zdansky, May, 763
- Pneumocystis carinii pneumonia in infant (ab), Georges Dauzier et al, June, 890
- temporary thrombotic state. Application of this concept to therapy of recurrent thrombo-embolism, with bacteriologic and roentgenologic considerations in the differential diagnosis of pulmonary infarction and pneumonia (ab), Stanford Wessler et al, Jan., 130

**PNEUMONITIS**

- interstitial pneumonitis in dermatomyositis (ab), Edward S. Mills and William H. Mathews, Feb., 284

**PNEUMOPERITONEOGRAPHY**. See *Pneumoperitoneum***PNEUMOPERITONEUM**

- See also *Pneumography*
- in diagnosis of pelvic disease (ab), Godfrey L. Gale and R. H. Griffin, Jan., 141
- pneumostratigraphy in investigation of left lobe of liver (ab), P. Bétoulières et al, Feb., 293
- spontaneous pneumoperitoneum in newborn; case (ab), Arnold Porter, Feb., 293
- studies in recognition of strangulating intestinal obstructions with special reference to value of pneumoperitoneography (ab), John F. Perry, Jr. et al, April, 609
- unusual causes of free intraperitoneal air in acute conditions of the abdomen (ab), Robert D. Spensley et al, Jan., 131

**PNEUMOTHORAX**

- large pneumothorax and associated massive collapse of homolateral lung due to intrabronchial obstruction; case, Sidney W. Nelson, March, 411

**POCHIN, E. E.** See **HILTON, GWEN****POIRAULT, A.**: Lesions of the bones of the leg in the course of varicose ulcers (ab), May, 783**POLLACK, ROBERT.** See **MACK, ROBERT E.****OLONIUM**

- RaD, RaE, and Po in atmosphere (ab), P. King et al, April, 636

**POLYARTERITIS**. See *Periarteritis Nodosa***POLYMERIZATION**. See *Roentgen Rays***POLYPI**. See *Tumors, polyp***POMPLI, GIUSEPPE.** See **BALZARINI, EMILIO****PONTIUS, JOHN R., and JACOBS, LEWIS G.**: The reversal of advanced bronchiectasis, Feb., 204**POPPEL, MAXWELL H., JACOBSON, HAROLD G., SHAPIRO, JEROME H., ADLER, HOWARD, and STEIN, JOSEPH**: Abnormal swallowing in central-nervous-system and neuromuscular disease (ab), Jan., 123—See **JACOBSON, HAROLD G.**—See **LENTINO, WALTER****—LENTINO, WALTER, ZAINO, COSTANTINO, and JACOBSON, HAROLD**: Closing mechanism of lower esophagus in man. Radiological study of five hundred unselected patients (ab), March, 445**—and ROBINSON, WILLIAM T.**: Roentgen manifestations of caisson disease (ab), May, 779—See **ZAINO, COSTANTINO****PROCEPHALOSIS**

- roentgen diagnosis of Armillifer infection in man, Howard L. Steinbach and Herbert G. Johnstone, Feb., 234

**PORPHYRIA**

- acute intermittent porphyria with acute abdominal findings and palpable mass (ab), Wesley Furste and Perry R. Ayres, Feb., 302

**PORTSMANN, W.**: Infectious spondylitis following damage to the anterior longitudinal ligament (contribution to the spondylitis following paravertebral anesthesia) (ab), May, 783**PORTAL VEIN**

- diagnostic value of percutaneous splenoportography (ab), M. Róth and I. Jóna, April, 606
- does "laparoscopic" splenoportography indicate an advance in field of medical x-ray diagnosis? Contribution to early diagnosis of intrahepatic obstruction (ab), L. Wannagat, March, 451
- experimental study of intrahepatic distribution of portal blood (ab), Jack W. Cole et al, March, 468
- extrahepatic portal hypertension (portal vein thrombosis) diagnosed by percutaneous splenic venography (ab), Hector F. Rodriguez et al, April, 606

- splenoportography for diagnosis of portal hypertension (ab), José M. Falomir et al, May, 777

- splenoportography: valuable adjunct in study of portal hypertension (ab), Hector F. Rodriguez et al, May, 776

**PORTER, ARNOLD**: Spontaneous pneumoperitoneum in the newborn. Report of a case (ab), Feb., 293**PORTER, D. C.** See **McCANN, J. SYDNEY****PORTER, EDWARD C.**: Measurement of the cervical spinal cord in Pantopaque myelography (ab), June, 902**PORTNOY, NELSON L.** See **HOFFMAN, HOWARD A.****POSER, CHARLES M., and TAVERAS, JUAN M.**: Cerebral angiography in encephalo-trigeminal angiomatosis, March, 327**POTASSIUM**

- Los Alamos human counter (studies on potassium content of man) (ab), Ernest C. Anderson et al, March, 473
- radioactive. See *Radioactivity, radiopotassium*

**POULOS, PETER.** See **KOVACH, JOHN C.****POWELL, H. D. W.**: Interdigital sinuses in barber's hand (ab), Jan., 140**POWERS, WILLIAM E., McGEE, HARRY H., Jr., and SEAMAN, WILLIAM B.**: Contrast examination of the larynx and pharynx, Feb., 169**PREGNANCY**

- See also *Fetus; Pelvis, measurement*
- carcinoma of cervix associated with pregnancy (ab), Glen E. Hayden, Feb., 304
- effect of antepartum diagnostic roentgenography on white blood cell count of newborn infant, Irwin H. Kaiser and James F. Marvin, Feb., 249

**PRICE, C. H. G.**: The grading of osteogenic sarcoma, and its bearing upon survival and prognosis (ab), Feb., 302**PRIDGEN, JAMES E., and TENNIS, CHARLES W.**: Reconstruction of the entire anterior abdominal wall in the presence of postirradiation changes (ab), May, 792**PRINCIPATO, DOMINICK J.** See **LENTINO, WALTER****PRISONS AND PRISONERS.** See **WAR****PRITCHARD, W. H.** See **MOIR, T. W.****PROSTATE**

- position of patient for roentgenologic interpretation of prostatogram (ab), A. Estin Comarr, March, 459
- urethrocytographic classification of prostatitis (ab), M. L. Brodny and S. A. Robins, March, 459
- vertebral osteomyelitis following operation on urinary tract or sigmoid: third lesion of uncommon syndrome (ab), Edwin L. Lame, March, 454

**CANCER**

- experiences with radioactive chromic phosphate in urological tumors (ab), Vincent Moore et al, Feb., 311
- present status of treatment of carcinoma of prostate with radioactive materials (ab), George J. Bulkeley et al, March, 470
- recording of radioactivity in blood, liver, and prostate following interstitial administration of Au<sup>198</sup> in carcinoma of prostate (ab), Wayne M. Rounds and Titus C. Evans, April, 629
- treatment of inoperable carcinoma with radioactive gold (ab), Miles W. Thomley et al, April, 629
- urethrocytography in differential diagnosis of prostatic cancer (ab), K. J. Oravisto and S. Schaumann, April, 615

**PROTEINS.** See *Blood, proteins; Cystine***PROTONS**

- isotopes and nuclear radiations (synchrocyclotron) in experimental medicine (ab), John H. Lawrence, April, 625

- proton irradiation of pituitary and its metabolic effects; Memorial Fund lecture, Rollin K. McCombs, June, 797

**PRYDE, ARTHUR W.** See **SUTOW, WATARU W.****PRYLES, CHARLES V.** See **SHWACHMAN, HARRY****PSENNER, L.**: Roentgen signs of space-occupying lesions of the orbit (ab), June, 885**PSEUDARTHROSIS**

- fractures and pseudarthroses of first rib (ab), J. S. Dunbar, April, 612

**PSORIASIS**

- roentgen manifestations of psoriatic arthritis, Thomas F. Meanev and Robert A. Hays, March, 403

**PUBIC BONE**

- non-suppurative osteitis pubis in female (ab), Leon L. Wiltsie and Charles H. Frantz, April, 613

- osteochondritis ischiopubica (ab), Lars R. Holsti, Jan., 140

**PUBLIC HEALTH**

- impact of atomic energy industry on community health; panel discussion (ab), May, 793
- public health traineeships, March, 427

**PUCK, THEODORE T., and MARCUS, PHILIP I.**: Action of x-rays on mammalian cells (ab), March, 475**PUGH, DAVID G.** See **ZIMMER, JAMES F.****PULMONARY VALVE**

- dilatation of pulmonary artery in pulmonary stenosis (ab), S. P. van Buchem, March, 442

**PYELITIS.** See *Kidneys, cysts***PYELOGRAPHY**

- See also *Hydronephrosis; Kidneys*
- combined intravenous cholecystography and pyelography (with simultaneous administration of Biligradin and Diodone) (ab), N. H. Aldridge, Jan., 143
- comparative study of value of sodium acetrizate (Diaginal) 50 per cent and sodium diatrizate (Hypaque) 45 per cent in intravenous urography (ab), B. Green and J. G. Sowerhuts, Jan., 142

**PYELOGRAPHY—cont.**

- effect of intravenous Benadryl in allaying allergic manifestations of 70 per cent Urokon (ab), Jack Lapides and Robert E. Boyd, April, 617
- excretory pyelography in infants: technic for intravenous injection (ab), Edward B. Singleton and Gunyon H. Harrison, March, 458
- excretory urography with Hypaque Sodium: experience with 300 cases (ab), Ernest Kraft and Gregory S. Slater, April, 617
- experiences with Triopac, new tri-iodine-containing contrast material, for intravenous urography (ab), J. Wellauer and M. Del Buono, May, 785
- heterotropic excretion of intravenously injected contrast media (Hypaque), Julian Arendt and Adam Zgoda, Feb., 238
- Hypaque in intravenous pyelography: analysis of 50 controlled examinations comparing Hypaque with 50 per cent Diodone (ab), Brian C. Hale, Jan., 142
- Hypaque Sodium, new urographic contrast medium (ab), Tom E. Nesbitt et al., June, 904
- intravenously given urographic mediums: comparative study of 800 cases (using Neo-Iopax, Urokon, Hypaque, and Renografin) (ab), Walter Lentino et al., April, 616
- iodide "mumps" after intravenous urography (ab), Ralph M. Sussman and Jay Miller, June, 905
- major reactions to intravenous urographic media (Urokon) (ab), Charles H. Nicolai, June, 904
- Miokon, new intravenous urographic medium (ab), Charles H. Nicolai, Feb., 299
- nephrography during routine excretory urography (ab), Arnold M. Wald, Jan., 142
- polycystic disease of kidney in infants: nephrograms following intravenous urography (ab), C. L. Hinkel and L. C. Santini, May, 784
- reactions due to intravenous Urokon (ab), Vernon H. Youngblood et al., April, 617
- report on 1028 cases of intravenous urography with sodium acetrizate (Diaginal) as contrast medium (ab), P. Cave et al., Jan., 142
- sodium amidotrizoate (Hypaque) and sodium acetrizate (Urokon): comparison of efficacy in intravenous urography (ab), Malcolm D. Jones et al., June, 904
- urologic examination with new radiopaque mediums, diatrizoate, acetrizate, and dioprotizate: clinical comparison (ab), Howard A. Hoffman et al., June, 904
- visualization of renal pelvis in cholegraphy (ab), Georg Theander, Feb., 295

**PYLORUS**

- roentgenologically demonstrable gastric abnormalities in cases of previous congenital pyloric stenosis (ab), O. Steinicke Nielsen and M. Roelsgaard, Feb., 290

**PYRIDOXIN HYDROCHLORIDE**

- new drugs for irradiation sickness, Basil A. Stoll, March, 380

**Q**

**QUASTLER, HENRY:** The nature of intestinal radiation death (ab), March, 474

**QUESTIONNAIRES**

- on questionnaires and records (ed), Herbert L. Abrams, June, 869

**QUIMBY, EDITH H.:** Isotope studies of blood flow and blood cells (ab), April, 624

**QUINA, MARIO G.** See **FRANCO, VICTOR H.**

**R**

**RABAIOTTI, A.:** Pelvic phlebography obtained by transosseous injection of contrast material (ab), Feb., 289

**RABINOVITCH, JACOB, ANTON, JOSEPH I., RABINOVITCH, PHINEAS, and MITCHELL, NATHAN:** Primary carcinoma of the infrapapillary portion of the duodenum (ab), June, 896

**RABINOVITCH, PHINEAS.** See **RABINOVITCH, JACOB**

**RADIATIONS**

See also Atomic Bomb and Atomic Energy; Betatron; Counters; Dosimeters and Dosimetry; Electrons; Neutrons; Polonium; Protons; Radioactivity; Radium; Roentgen Rays; Thorium

- flux of secondary ionizing particles in uniformly irradiated homogeneous medium of varying density: application to walled ionization chambers (ab), G. Failla, Feb., 309
- maximum permissible radiation exposures to man. Preliminary statement of National Committee on Radiation Protection and Measurement, Feb., 260; addendum to Radiation Handbook 60, June, 872
- photographic badges for estimation of quality of x and gamma radiation (ab), B. W. Soole, June, 916

**effects.** See also Radiations, injurious effects

- correlation of early radiation changes in lymphatic tissues with antitoxin-producing ability (ab), William L. Williams et al., April, 636

- prompt effects of whole-body irradiation at high dose rate on electroencephalogram of monkeys (ab), Phillips M. Brooks, March, 475

**injurious effects.** See also Radioactivity; Radium, injurious effects; Roentgen Rays, injurious effects; Thorium

- cancer of thyroid and irradiation (ab), Erich M. Uhlmann, April, 632

—experimental studies. See Radiations, effects

- fracture of femoral neck following irradiation of pelvis (ab), Edgar L. Ralston, May, 790

- hazards of radiation; Medical Research Council's report (ab), April, 632

- importance of intestinal flora in radiation treatment of gynecological carcinomata (ab), J. Breiter and W. Roth, April, 621

- nature of intestinal radiation death (ab), Henry Quastler, March, 474

- new drugs for irradiation sickness, Basil A. Stoll, March, 380

- professional radiation injuries in medical practice (ab), Hedi Fritz-Niggli, Jan., 153

- radiation as carcinogenic agent (ab), Austin M. Brues, Feb., 313

- radiation injury to small bowel with special consideration of surgical complications (ab), H. Harvey Peterson and Edwin G. Clausen, May, 791

- reconstruction of entire anterior abdominal wall in presence of postirradiation changes (ab), James E. Fridgen and Charles W. Tonnison, May, 792

- skin replacement for severe radiation dermatitis of face (danger of recurrence) (ab), John J. Conley, March, 475

- surgical management of local postirradiation effects (ab), J. J. Longacre, May, 792

**protection against.** See also Roentgen Rays, protection against

- afterloading—contribution to protection problem (ab), Keith S. Mowatt and Keith A. Stevens, May, 787

- radiological defense plans in California (ab), Stafford L. Warren and Justin J. Stein, Feb., 312

**RADIOACTIVITY**

See also Atomic Bomb and Atomic Energy; Polonium; Radiations; Radium; Thorium; Tritium

- automatic brain scanner for use with gamma-ray-emitting isotopes, W. B. Reid and H. E. Johns, Feb., 259

- calculation of maximum permissible concentrations for long-lived radioisotopes (ab), J. W. Healy, April, 626

- carcinogenesis by radioactive substances (ab), Jacob Furth and John L. Tullis, May, 791

- clinical aspects of treatment of carcinomas of gastrointestinal tract with isotopes (ab), Josef Becker and Kurt E. Scheer, June, 913

- course in the clinical use of radioactive isotopes, Jan., 109

- course in radiology and radioactive isotopes, University of Kansas, Jan., 109

- diagnostic tests that depend on radioisotope localization (ab), Marvin M. D. Williams and Donald S. Childs, Jr., April, 623

- in man and his environment (ab), F. W. Spiers, June, 914

- isotope implant therapy for internally situated tumors (ab), Paul V. Harper et al., May, 787

- isotopes and nuclear radiations (synchrocyclotron) in experimental medicine (ab), John H. Lawrence, April, 625

- medical care of wounds contaminated with radioactive materials (ab), Asher J. Finkel and Earl A. Hathaway, March, 476

- radioactive isotopes course, University of Southern California, March, 427

- radioisotopes course, Cook County Hospital, Chicago, March, 427

- some applications of isotope dilution technics (ab), Rosalyn S. Yalow and Solomon A. Berson, April, 624

**radioactinium**

- analysis of mixtures of radioactive isotopes by  $\gamma$ -ray measurements. Application of method to  $Ac^{227}$ ,  $Th^{232}$ , and  $Ra^{226}$  (ab), D. S. Anthony et al., March, 473

**radiobarium**

- elimination of radioactive barium sulfate particles from lung (ab), H. Cember et al., May, 796

**radiocalcium**

- artificial kidney and ion-exchange resins as possible methods of removing radioelements from body, W. B. Looney, C. J. Maletskos, Marie Helmick, John Reardon, Jonathan Cohen and Warren Guild, Feb., 255

**radiocarbon**

- autoradiographic study of organically bound carbon-14 in growing epiphyseal cartilage and bone (ab), Richard C. Greulich, April, 632

- biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats (using  $C^{14}$ -acetate) (ab), John G. Coniglio et al., April, 635

- rate of elimination of labeled carbon dioxide from body (ab), Douglas R. Drury et al., June, 914

**radiocesium**

- analysis of  $Cs^{137}$  content in man due to radioactive fallout, C. E. Miller, L. D. Marinelli and O. J. Steingraber, Jan., 105

**radiochromium.** See also Radioactivity, radiophosphorus

- blood volume changes in cases of cerebral trauma as determined by radioactive isotopes (ab), Edmund A. Smolik et al., Jan., 152

- blood volume determinations with radioactive chromium ( $Cr^{51}$ ) labeled erythrocytes; feasibility of routine total red blood cell volume determinations in general hospital (ab), Leo M. Meyer, Feb., 311

- determination of cell volume in massive transfusions using  $Fe^{59}$  and  $Cr^{51}$  (ab), E. L. Smith et al., May, 790

- labeling human erythrocytes with radiochromium (ab), Milton Cooper and Charles A. Owen, Jr., March, 472

**radiocobalt**

- aftercare following intraluminal cobalt therapy for carcinoma of bladder (ab), Robert E. Schick, Feb., 312

**RADIOACTIVITY, radiocobalt—cont.**

- comparative mortality following single whole-body exposures of mice to fission neutrons and  $\text{Co}^{60}$  gamma rays, Howard H. Vogel, Jr., John W. Clark and Donn L. Jordan, March, 386
- concerning technic of irradiation (ab), Ivo Padovan and Pavao Frank, Jan., 151
- conditioned responses to manipulative procedures resulting from exposure to gamma radiation (ab), John Garcia et al, May, 795
- dosage calculations for rotation therapy, with special reference to cobalt 60 (ab), H. E. Johns et al, April, 631
- dosage distribution in rotational cobalt 60 therapy (ab), D. E. A. Jones et al, Feb., 308
- evaluation of fecal recovery method for determining intestinal absorption of cobalt<sup>60</sup>-labeled vitamin  $\text{B}_{12}$  (ab), James A. Halsted et al, May, 790
- neutron-insensitive gamma-ray dosimeter, R. S. Caswell, Jan., 101
- new telegamma apparatus (for use with radioactive cobalt) (ab), Bo Lindell and Rune Walstam, Jan., 151
- plasma, tissue and urinary radioactivity after oral administration of  $^{60}\text{Co}$ -labeled vitamin  $\text{B}_{12}$  (ab), C. C. Booth and D. L. Mollin, May, 789
- relative biological effectiveness of fast neutrons, x-rays, and  $\gamma$ -rays for acute lethality in mice (ab), A. C. Upton et al, Feb., 316
- studies in urinary excretion of vitamin  $\text{B}_{12}\text{Co}^{60}$  in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ar), William R. Best et al, March, 471
- time pattern of vitamin  $\text{B}_{12}\text{Co}^{60}$  urinary excretion in man after oral administration and parenteral "flushing" (ab), William R. Best et al, March, 472
- radiocopper**
  - studies on copper metabolism. XXI. Transfer of radio-copper between erythrocytes and plasma (ab), J. A. Bush et al, March, 472
- radiogallium**
  - localization of  $\text{Ga}^{75}$  in bone lesions (ab), H. C. Dudley et al, April, 631
- radioglycine**
  - incorporation of  $\text{N}^{15}$ -labeled glycine in plasma protein, plasma phospholipids, blood non-protein nitrogen, and splenic tissue in man (ab), D. S. Amatuzio et al, March, 472
- radiogold**
  - acute radiation death of dogs receiving single massive dose of intravenous radioactive gold (ab), P. F. Hahn et al, April, 629
  - aplastic anemia secondary to intravenous therapy; case (ab), Harold M. Schoolman and Steven O. Schwartz, Jan., 152
  - disseminated histiocytosis X (Letterer-Siwe's disease) treated unsuccessfully with colloidal gold ( $\text{Au}^{198}$ ); case (ab), Theodore A. Tristan et al, June, 913
  - dosimetry of interstitial implants, M. L. Meurk, A. Jacobson and R. J. Schultz, Feb., 256
  - experience with colloidal gold in treatment of ovarian carcinoma (ab), William C. Keettel and H. B. Elkins, Jan., 151
  - histopathological study of lymph nodes irradiated with colloidal  $\text{Au}^{198}$  (ab), William M. Christopherson and Harold F. Berg, Feb., 311
  - in malignant effusions (ab), Owen Millar and J. C. F. MacDonald, March, 470
  - in treatment of ovarian carcinoma (ab), H. B. Elkins and William C. Keettel, April, 628
  - lymphatic dissemination of radiogold in presence of lymph node metastases (ab), Colin G. Thomas, Jr., May, 788
  - present status of treatment of carcinoma of prostate with radioactive materials (ab), George J. Bulkeley et al, March, 470
  - recording of radioactivity in blood, liver, and prostate following interstitial administration of  $\text{Au}^{198}$  in carcinoma of prostate (ab), Wayne M. Rounds and Titus C. Evans, April, 629
  - study of lymphatics of mammary gland with  $\text{Au}^{198}$  (ab), Felix E. Leborgne et al, March, 470
  - study of methods for implantation of radioactive materials (ab), H. C. Dudley and T. G. Mitchell, April, 625
  - technic for permanent implantation of radioisotopes, Ulrich K. Henschke, Feb., 256
  - therapy of serous cavity effusion with colloidal radioactive gold 198 (ab), Edward P. Engels et al, June, 913
  - treatment of inoperable prostatic carcinoma (ab), Miles W. Thomley et al, April, 629
  - treatment of peritoneal and pleural mesothelioma and metastatic malignancy with colloidal gold (ab), F. M. Lyle and Philip S. King, April, 628
- radioiodine.** See also Thyroid
  - blood volume changes in cases of cerebral trauma as determined by radioactive isotopes (ab), Edmund A. Smolik et al, Jan., 152
  - clearance from lower extremities of patients with myocardial infarction (ab), Franz K. Bauer et al, May, 788
  - clinical study of new renal function test: radioactive Diodrast renogram (ab), Chester C. Winter, June, 903
  - determination of protein-bound  $\text{I}^{131}$  with anion exchange resin column (ab), Theodore Fields et al, March, 469
  - determination of protein-bound radioiodine with an anion exchange resin (ab), Leslie Zieve et al, March, 469
  - disulfide reduction and release of iodide 131 following irradiation of  $\text{I}^{131}$  labeled proteins, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100
  - early disappearance of  $\text{I}^{131}$  serum albumin from circulation of edematous subjects and its implications in clinical determination of blood volume (ab), T. W. Moir et al, March, 469
  - evaluation of peripheral arteriosclerotic insufficiency utilizing radioactive iodinated human serum albumin (ab), Earl J. Halligan et al, March, 468
  - investigation of transfer rates of albumin tagged with  $\text{I}^{131}$  in ascites and edema. II. Studies in control subjects and patients with cirrhosis (ab), James A. Schoenberger et al, March, 469
  - in vivo method for determination of cardiac output (by use of externally positioned scintillation counter and radio-iodinated human serum albumin as trace material), Robert E. Mack, Herschel J. Wells and Robert Pollack, Feb., 245
  - iodine-131 beta particle dosage in small animals, Patricia W. Durbin, James S. Robertson and Joseph G. Hamilton, Jan., 103
  - radioiodine course, Georgetown University, March, 426
  - rate of intravascular equilibration of intravenously administered  $\text{I}^{131}$ -labeled albumin in various body sites (ab), Arthur Bauman and Marcus A. Rothschild, May, 789
  - scintiscanning as method for localization of cerebral tumors (ab), Robert L. Bell et al, May, 758
- radioiridium**
  - dosimetry of interstitial implants, M. L. Meurk, A. Jacobson and R. J. Schultz, Feb., 256
  - technic for permanent implantation of radioisotopes, Ulrich K. Henschke, Feb., 256
- radioiron**
  - determination of cell volume in massive transfusions using  $\text{Fe}^{59}$  and  $\text{Cr}^{51}$  (ab), E. L. Smith et al, May, 790
  - in routine hematological practice (ab), G. Wetherley-Mein et al, April, 631
  - isotope studies of blood flow and blood cells (ab), Edith H. Quimby, April, 624
- radiophosphorus**
  - diagnostic significance of radioactive isotopes in early cancer of alimentary tract, especially esophagus and cardia (ab), Komei Nakayama, April, 630
  - effect of radiophosphorus and cortisone on transplanted mammary adenocarcinomas in susceptible and resistant mice (ab), Norman E. Boucher, Jr., et al, May, 789
  - experiences with radioactive chromic phosphate in urological tumors (ab), Vincent Moore et al, Feb., 311
  - influence of temperature stress on uptake of  $\text{P}^{32}$  in rat (ab), John A. Sealander, Jr., June, 918
  - present status of treatment of carcinoma of prostate with radioactive materials (ab), George J. Bulkeley et al, March, 470
  - sex difference in response to titrated irradiation therapy ( $^{32}\text{P}$ ) of patients with chronic granulocytic leukemia (ab), William H. Crosby et al, May, 788
  - small end-window and angle-window Geiger counters; measurement of radioactivity in intra-ocular tumors following injection of radioactive phosphorus (ab), Charles I. Thomas et al, April, 630
  - study of methods for implantation of radioactive materials (ab), H. C. Dudley and T. G. Mitchell, April, 625
  - subdural collections of fluids in infants and children. II. Study with radioactive sodium phosphate ( $\text{P}^{32}$ ) (ab), R. M. N. Crosby and Robert E. Bauer, Jan., 121
  - surgical and radiation treatment of carcinoma of breast; new concept (ab), Bertram V. A. Low-Beer and H. Glenn Bell, April, 619
  - transilluminator for use with curved Geiger counter; aid to localization of posterior intra-ocular tumors (ab), Charles I. Thomas and Jack S. Krohmer, April, 630
- radiostrontium**
  - comparison of metabolism of rubidium 86 and potassium 42 following simultaneous injection into man (ab), Malcolm P. Tyor and James S. Eldridge, June, 913
  - transfer of potassium between blood, cerebrospinal fluid and brain tissue (ab), Guilford G. Rudolph and Norman S. Olsen, May, 789
- radiostrontium**
  - comparison of metabolism of rubidium 86 and potassium 42 following simultaneous injection into man (ab), Malcolm P. Tyor and James S. Eldridge, June, 913
- radiostrontium**
  - isotope studies of blood flow and blood cells (studied by radiocardiography) (ab), Edith H. Quimby, April, 624
- radiostrontium**
  - artificial kidney and ion-exchange resins as possible methods of removing radioelements from body, W. B. Looney, C. J. Maletskos, Marie Helmick, John Reardon, Jonathan Cohen and Warren Guild, Feb., 255
  - clinical experiences with strontium 90 applicator (ab), Eugene F. Lutterbeck and Irvin F. Hummon, Jr., Jan., 152
  - in pestigation into experimental production of cancer by local beta irradiation (ab), G. Schubert et al, May, 794
  - treatment of hemangiomas with strontium-90 beta-ray applicator, David M. Sklaroff, Jan., 87
- radiothorium**
  - uptake of radiothorium in fractured humerus in rat (ab), J. C. Osborne and K. Kowalewski, May, 790

**RADIOACTIVITY—cont.**

- radioyttrium
  - effect of peritumoral tissue infiltration with radioactive yttrium on growth and spread of malignant cells (ab), Horace Goldie and Harold D. West, May, 790
  - present status of treatment of carcinoma of prostate with radioactive materials (ab), George J. Bulkley et al, March, 470
  - study of methods for interstitial implantation of radioactive materials (ab), H. C. Dudley and T. G. Mitchell, April, 625
  - Y\* for palliative treatment of effusions due to malignancy (ab), Elsie P. Siegel et al, April, 630

**RADIOCARDIOGRAPHY.** See Heart**RADIOISOTOPES.** See Radioactivity**RADIOLOGICAL SOCIETIES**

- Arizona Radiological Society, Feb., 269
- Association of Radiologists of the Province of Quebec, March, 426
- Biophysical Society, May, 742
- Canadian Association of Radiologists, May, 742
- Colorado Radiological Society, Jan., 108; April, 586
- Eastern Conference of Radiologists, Jan., 108
- Greater Miami Radiological Society, March, 426
- Greater Saint Louis Society of Radiologists, March, 426
- Houston (Texas) Radiological Society, Feb., 269
- Kansas Radiological Society, May, 742
- Kentucky Radiological Society, May, 742
- Miami Valley (Ohio) Radiological Society, Feb., 269
- Mississippi Radiological Society, April, 586
- Nassau (N.Y.) Radiological Society, Jan., 108
- New York Roentgen Society, June, 872
- Philadelphia Roentgen Ray Society, June, 872
- Radiation Research Society, March, 426
- Radiological Society of Greater Cincinnati, Jan., 108
- Rochester Roentgen Ray Society, March, 426
- Rocky Mountain Radiological Society, March, 426
- secretaries and meeting dates, Jan., 114; April, 593
- Sociedad de Radiología, Cancerología y Física Médica del Uruguay, May, 742
- Sociedad Mexicana de Radiología, April, 586
- Society of Nuclear Medicine, June, 872
- Tennessee Radiological Society, June, 872
- Wisconsin Radiological Society, Jan., 109

**RADIOLOGICAL SOCIETY OF NORTH AMERICA**

- Virden, C. Edgar, president (ed), Ira H. Lockwood, Feb, 262

**forty-second annual meeting**

- (ed), Feb., 264
- Carman lecture: Science and solitude vs. clinical consultation, Lowell S. Goin, March, 319
- introduction of Carman lecturer, Clarence E. Hufford, March, 317
- Memorial Fund lecture: proton irradiation of pituitary and its metabolic effects, Rollin K. McCombs, June, 797
- presidential address: Attitudes in radiology (ed), Clarence E. Hufford, March, 423
- refresher courses, Feb., 268
- scientific exhibits, Feb., 266
- gold medal

- presentation to Dr. Lawrence Reynolds, Feb., 264

**RADIOLOGY AND RADIOLOGISTS**

- attitudes in radiology. Presidential address: Radiological Society of North America (ed), Clarence E. Hufford, March, 423
- Fourth Congress of Radiology and Electrolgy of Latin Culture, Jan., 109
- professional radiation injuries in medical practice (ab), Hedi Fritz-Niggli, Jan., 153
- teaching of chest radiology to medical students (ab), Charles T. Dotter, April, 603

**RADIOMANOMETRY.** See Biliary Tract, roentgenography**RADIOTHERAPY**

- See also Cancer, radiotherapy; Dosimeters and Dosimetry; Electrons; Ionization Chambers; Protons; Radiations, injurious effects; Radiations, protection against; Radium; Roentgen Therapy; under diseases, organs, and regions
- basic aspects of radiation therapy (ab), W. S. Moos, April, 622

**RADIUM**

- See also Radiations; Radiotherapy; Radon; etc.
- analyses of mixtures of radioactive isotopes by  $\gamma$ -ray measurements. Application of method to  $Ac^{227}$ ,  $Th^{232}$ , and  $Ra^{226}$  (ab), D. S. Anthony et al, March, 473

**injurious effects**

- granulosa-cell tumor producing symptoms 4 years following radium menopause (ab), David M. W. Maxwell, Feb., 312
- RaD, RaE, and Po in atmosphere (ab), P. King et al, April, 636

**protection against**

- new radium implant technic to reduce operating room exposure and increase accuracy of placement (ab), Robert Fishman and Lester I. Citrin, Jan., 150

**therapy.** See also under diseases, organs, and regions, as Uterus, cancer

- application of Paterson-Parker system in interstitial radium therapy (ab), Fernando G. Bloedorn, Jan., 149
- graphical method for localization of radium sources for dosage calculation (ab), Morton M. Kligerman et al, Jan., 149

- nomographic wheel for three dimensional localization of radium sources and calculation of dose rate (ab), J. Garrett Holt, Jan., 150

**RADKE, H.** See AURIG, G.**RADON**

- See also Pituitary Body
- dose to trachea and bronchi from decay products of radon and thoron (ab), A. C. Chamberlain and E. D. Dyson, April, 633
- dosimetry of interstitial implants, M. L. Meurk, A. Jacobson and R. J. Schultz, Feb., 256
- retention of radon decay products in human lungs (ab), Cestmir Jech, May, 793
- stable, low-background, high-efficiency scintillation counter for analysis of low levels of radon concentrated by adsorption on charcoal, H. F. Lucas, Jr., Feb., 258
- technic for permanent implantation of radioisotopes, Ulrich K. Henschke, Feb., 256

- RALL, J. E.: Role of radioactive iodine in the diagnosis of thyroid disease (ab), March, 466

- RALSTON, EDGAR L.: Fracture of the femoral neck following irradiation of the pelvis (ab), May, 790

- RAMSAY, GORDON S.: The negative x-ray report in cancer of the colon (ab), March, 448

**—See HAJDU, N.**

- RAMSEY, GEORGE H. See CORNWELL, WILLIAM S.
- RANDALL, JOHN H., and GODDARD, WILLIAM B.: A study of 531 cases of endometrial carcinoma (ab), June, 909

**RANKIN, J. A.** See CAVE, P.

- RAO, T. SURYAPRAKASA. See REDDY, D. J.

**RAPHAEL, ROBERT L.** See JONES, MALCOLM D.

- RATELL, GERMAINE, and LÉGER, JEAN-LOUIS: Roentgen findings in genital tuberculosis in women (ab), Jan., 140

- RATLIFF, A. H. C.: Tuberculosis at the site of spondylolysis (ab), Jan., 139

- RATTNER, HERBERT, CHAMBERLAIN, W. EDWARD, et al: X-rays in dermatology (ab), May, 792

- RAUCH, ROBERT F.: Postbulbar peptic ulceration of the duodenum (ab), May, 773

**RAVENTOS, ANTONIO.** See TRISTAN, THEODORE A.**RAVITCH, MARK M.** See WACHTEL, FRED W.**—See WILDER, ROBERT J.**

- RAWSON, S. P.: Some rare causes of vomiting in infancy and childhood (ab), March, 460

**REARDON, JOHN.** See LOONEY, W. B.**RECORDS**

- on questionnaires and records (ed), Herbert L. Abrams, June, 869

**RECTUM**

- dose decrease in bladder and rectum in gynecologic radium treatments (ab), August Verhagen, Jan., 146
- radiation combined with surgery in treatment of rectal neoplasms in various stages (ab), P. Gambaccini, Jan., 145
- significance of ureteral studies in surgery of colon and rectum (ab), H. E. Bacon and L. McCrea, March, 458
- value of lateral view of rectosigmoid (ab), G. Osborne et al, Feb., 293

**REDDY, D. BHASKARA.** See REDDY, D. J.

- REDDY, D. J., RAO, T. SURYAPRAKASA, GUPTA, K. GOPALAKRISHNIAH, DEVI, SAKUNTALA, MUNISWAMY, M., and REDDY, D. BHASKARA: Adenoma of the parathyroid gland associated with osteitis fibrosa cystica (ab), May, 778

- REED, C. E.: A study of the effects on the lung of industrial exposures to zirconium dusts (ab), May, 764

- REICH, NATHANIEL E., and EHRICH, DAVID E.: Displacements of the barium-filled esophagus by cardiovascular lesions (ab), Feb., 286

**REICH, RUDOLPH.** See ROSENBERG, NORMAN

- REICH, STANLEY B., FELTON, LELAND R., and LEVITIN, JOSEPH: Cholangiography after cholecystectomy. Visualization with Cholangiography by vein (ab), March, 450

**REID, W. B.** See ROSWIT, BERNARD

- REID, W. B., and JOHNS, H. E.: An automatic brain scanner for use with gamma-ray emitting isotopes, Feb., 259

**REINER, LEOPOLD.** See FRANK, HOWARD A.

- REIQUAM, C. W., BEATTY, E. C., Jr., and ALLEN, R. P.: Neuroblastomas in infancy and childhood. Review of ten years' experience (ab), April, 621

- REMOLAR, JORGE, KATZ, S., RYBAK, B., and PELLIZARI, O.: Percutaneous transhepatic cholangiography (ab), May, 775

- RENFER, HANSRUDOLPH: Treatment of skin tumors of the inner canthus with regard to the function of the lacrimal ducts (ab), Jan., 143

**—See NEUENSCHWANDER, H.****RENOGRAPHY.** See Pycnography

- RENOVANZ, H.-D.: The tuberculous coin lesion—a roentgenological symptom. (Observations in children and adolescents) (ab), March, 438

**RESINS**

- artificial kidney and ion exchange resins as possible methods of removing radioelements from the body, W. B. Looney, C. J. Maletskos, Marie Helmick, John Reardon, Jonathan Cohen and Warren Guild, Feb., 255

- determination of protein-bound  $I^{131}$  with anion exchange resin column (ab), Theodore Fields et al, March, 469

- determination of protein-bound radiiodine with an anion exchange resin (ab), Leslie Zieve et al, March, 469

**RESPIRATION**

- elimination of radioactive barium sulfate particles from lung (ab), H. Cember et al, May, 796
- pendular motion of mediastinum (ab), Philip Samet and William Anderson, April, 602
- roentgenographic findings in respiratory problems of infants (ab), S. B. Feinberg, March, 439

**RESPIRATORY TRACT**

- See also Bronchi; Lungs; Pharynx; etc.
- in vivo visualization of intracardiac structures with gaseous carbon dioxide; cardiovascular-respiratory effects and associated changes in blood chemistry (ab), M. J. Oppenheimer et al, June, 893
- some anomalies of respiratory system (ab), S. Whately Davidson, May, 702

**RETICULOENDOTHELIAL SYSTEM**

- See also Bones, marrow; Liver; Spleen
- disseminated histiocytosis X (Letterer-Siwe's disease) treated unsuccessfully with radioactive colloidal gold (Au<sup>199</sup>); case (ab), Theodore A. Tristan et al, June, 913

**RETICULOSARCOMA**. See Sarcoma, reticulosarcoma**RETROPERITONEUM**. See Abdomen; Pneumography**REUTER, FREDERIC W.** (obit), Jan., 113

- REYNOLDS, D. F., and GROVES, H. J.**: Clinical and radiological study of choanal polyp (ab), Feb., 279

**REYNOLDS, LAWRENCE**, awarded Gold Medal of Radiological Society of North America, Feb., 264**RHEUMATISM**. See Arthritis, Rheumatoid**RIBS**

- congenital rib anomalies; statistical study of 10,000 roentgenograms (ab), R. Pionnier and A. Depraz (ab), March, 435
- fractures and pseudarthroses of first rib (ab), J. S. Dunbar, April, 612

- RICHES, E. W.**: Radiotherapy in renal new growths (ab), May, 786

**RICH-HAMMAN SYNDROME**. See Lungs, fibrosis**RIEMENSCHNEIDER, PAUL A.**: Trigonoccephaly, June, 863**RIGLER, LEO G.**. See AMBERG, JOHN R.**RILEY, CONRAD M.**. See KIRKPATRICK, ROB H.

- RINGER, N., and LIDHOLM, S. O.**: Mediastinal tumors and cysts (ab), Feb., 286

- RITTER, A., and HELMIG, H.**: Experiences with diagnostic angiocholangiography and "peroperative radiomanometry" in cholelithiasis (ab), March, 450

**ROAF, ROBERT**: Paralytic scoliosis (ab), June, 899**ROB, C. G.**. See EASTCOTT, H. H. G.**ROBATDEK, E. S.**. See ANTHONY, D. S.**ROBBINS, KENNETH C.**. See BEST, WILLIAM R.**ROBBINS, LAURENCE L.**. See WANG, C. C.**ROBERTO, ALBERT E.**. See ROGERS, JAMES V., Jr.**ROBERTS, JAMES C., Jr., and CARLSON, KENNETH E.**: Hepatic duct carcinoma seventeen years after injection of thorium dioxide (ab), May, 791**ROBERTS, S. M.**. See WALLER, ROBERT D.**ROBERTSON, E. GRAEME**. See EBELING, P.

- ROBERTSON, J. S., and HUGHES, W. L.**: Theoretic considerations of the radiation dose from discrete tritium sources, Jan., 102

**—See BOND, V. P.****—See DURBIN, PATRICIA W.****ROBINS, S. A.**. See BRODNY, M. L.**ROBINSON, C. V.**. See SELVERSTONE, B.**ROBINSON, FENKELIN**. See GLASSMAN, IRVING-**ROBINSON, LEWIS S.**. See CRAWFORD, EDWARD J., Jr.**ROBINSON, WILLIAM T.**. See POPPEL, MAXWELL H.**ROBY, H. R., and McKAY, J. W.**: Fatality following abdominal arteriography (ab), Jan., 131**ROCKWOOD, LAWRENCE**. See CLARKE, B. G.**RODRIGUEZ, HECTOR F., DIAZ BONNET, RAFAEL, and RODRIGUEZ-PEREZ, DAVID**: Extrahepatic portal hypertension (portal vein thrombosis) diagnosed by percutaneous splenic venography (ab), April, 606**—GARDNER, FRANK H., and DIAZ-BONNET, RAFAEL**: Splenoportography: a valuable adjunct in the study of portal hypertension (ab), May, 776**RODRIGUEZ-PEREZ, DAVID**. See RODRIGUEZ, HECTOR F.**ROELSGAARD, M.**. See NIELSEN, O. STEINICKE**ROENTGEN RAYS**

- See also Betatron; Body-Section Roentgenography; Cineradiography; Radiations; Radiotherapy; Roentgen Therapy; etc.

**—biliary tract studies**. I. X-ray diffraction analysis of gallstones; correlation with occurrence of microspheroliths in bile (ab), Kerrison Juniper, Jr., and William E. Woolf, Jan., 134**—radiation polymerization of liquids**, Frank E. Hoecker and Ivan Watkins, Feb., 257**apparatus**. See also Counters; Roentgen Rays, fluoroscopy; Roentgen Therapy**—cerebral serial angiography** (Skull Oedeca camera) on 70 mm. film (ab), Heinz Vieten, June, 882**—device for localization of dental remnants in edentulous regions**, Morris Owen, April, 582**—improved syringe for angiography** (ab), B. Selverstone et al, March, 461**diagnosis**. See also Roentgen Rays, apparatus; Roentgen Rays, injurious effects; Roentgen Rays, protection against; under diseases, organs, and regions**—summation image in diagnostic roentgenology** (ab), Joseph Duhamel and Daniel Herpe, March, 461**—television in diagnostic roentgenology** (ab), R. Janker, Feb., 301**dosimetry**. See Dosimeters and Dosimetry; Roentgen Therapy**effects**. See also Roentgen Rays, injurious effects**—action of x-rays on mammalian cells** (ab), Theodore T. Puck and Philip I. Marcus, March, 475**—alkaline phosphatase activity in various mouse tissues following total-body x-irradiation** (ab), Joseph L. Mollura and Anna Goldfeder, June, 917**—analysis of effects of total-body x-irradiation on body weight of white Swiss mice**. II. Bodyweight changes of male mice as biological dosimeter (ab), William H. Chapman and Edward A. Jerome, April, 633**—animal experiments on radiosensitivity of growing bone** (ab), Pierre van Canaghem and Carl G. Schirren, May, 796**—biosynthesis of fatty acids in liver and intestine of intact normal, fasted and x-irradiated rats** (ab), John G. Coniglio et al, April, 635**—comparative activity of isologous vs. homologous or heterologous mouse bone marrow in promoting regeneration of irradiated mouse thymus** (ab), Barbara B. Hirsch et al, May, 795**—comparative effectiveness of several x-ray qualities for acute lethality in mice and rabbits** (ab), Douglas Grahn et al, March, 474**—comparison of biological effects of whole-body irradiation with 22.5 MEV x-rays, 18-MEV electrons, and 400-keV x-rays in rat** (ab), John B. Fuller et al, Feb., 315**—dependence of latency period of radiobiologic reaction on size of dose** (ab), Felix Wachsmann and Apostolos Yiannakopoulos, May, 793**—direct and indirect effects of x-rays on testis of rat** (ab), Henry I. Kohn, Feb., 314**—disulfide reduction and release of iodide 131 following irradiation (with x-rays) of <sup>131</sup>I labeled proteins**, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100**—early changes of bone of adult guinea-pigs after irradiation** (ab), Rudolph Birkner et al, June, 917**—early vasoconstriction induced in isolated rabbit's ear by radiation** (ab), Phillips M. Brooks et al, April, 635**—effect of total-body irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats** (ab), Kee-Chang Huang and James H. Bondurant, April, 635**—effect of transfusions of blood showing extreme leukocytosis on survival of x-irradiated mice** (ab), C. C. Congdon et al, April, 634**—effects of acute irradiation on evoked cerebellar response** (ab), John C. Lee et al, Feb., 315**—effects of hydration on x-ray sensitivity in Hordeum** (ab), Richard S. Caldecott, March, 475**—effects of single session of whole-body irradiation in Rhesus monkey** (ab), Mary V. Haigh and Edith Paterson, Jan., 154**—efficacy of hematopoietic protective procedures in rats irradiated with intestine shielded** (ab), Marguerite N. Swift et al, March, 474**—enlargement of liver in Sprague-Dawley rats following whole-body irradiation** (ab), Helen Supplee et al, April, 635**—incidence of endogenous bacteremia in irradiated rabbits** (ab), Carolyn W. Hammond and C. Phillip Miller, Feb., 315**—indirect induction of lymphomas in irradiated mice**. I. Tumor incidence and morphology in mice bearing non-irradiated thymic grafts (ab), Henry S. Kaplan et al, May, 794**—indirect induction of lymphomas in irradiated mice**. II. Factor of irradiation of host (ab), Henry S. Kaplan et al, May, 794**—indirect induction of lymphomas in irradiated mice**. III. Role of thymic graft (ab), William H. Carnes et al, May, 794**—indirect induction of lymphomas in irradiated mice**. IV. Genetic evidence of origin of tumor cells from thymic grafts (ab), Henry S. Kaplan et al, May, 795**—influence on oxygen consumption of spleen and thymus glands of rats** (ab), Maurice V. Sullivan and Kenneth P. DuBois, Feb., 314**—irradiation and lipoprotein metabolism in various species** (ab), John E. Hewitt and Thomas L. Hayes, April, 636**—lethal effects on rats of single and multiple exposures of 400-kv and 22-MV radiation** (ab), W. S. Moos et al, Feb., 313**—method of measuring tissue-damaging action of x-rays** (ab), H. J. Heite and K. H. Nicolai, May, 793**—modification of acute intestinal radiation syndrome through shielding** (ab), Marguerite N. Swift and S. Tom Taketa, April, 634**—prevention of intestinal radiation death by removal of irradiated intestine** (ab), James W. Osborne, April, 634**—protective action of carbon monoxide in mammalian whole-body x-irradiation** (ab), Eugene B. Konecni et al, Feb., 315**—reaction of mouse spleen to x-rays measured by changes in organ weight** (ab), Robert F. Kallman and Henry I. Kohn, Feb., 314

**ROENTGEN RAYS, effects—cont.**

- relation of tumor size to tumor resistance, Charles M. Nice, Jr., April, 555
- relative biological effectiveness of fast neutrons, x-rays, and  $\gamma$ -rays for acute lethality in mice (ab), A. C. Upton et al, Feb., 316
- responses to whole-body irradiation in starved rat (ab), L. F. Nims and J. L. Geisselsoder, May, 795
- reticulum-cell sarcoma of rats; apparent inhibition by irradiation (ab), David V. Brown and Theodore A. Thorson, Feb., 313
- similarities in killing by heat and by radiation in insect *Dahlbominus fuscipennis* (Zett.) (ab), William F. Baldwin, May, 796
- spreading effect of x-rays as measured by intradermal pressure (ab), H. Certa and H.-J. Heite, Jan., 155
- studies on bone marrow lipid in normal and irradiated rabbits (ab), Frederick Bernheim et al, Feb., 314
- temperature dependence of bacterial inactivation by x-rays (ab), G. E. Stapleton and C. W. Edington, June, 918
- time-intensity factors in radiation response. I. Acute effects of megavolt electrons (cathode rays) and high- and low-energy x-rays with special reference to brain (ab), Samuel P. Hicks et al, Jan., 154
- transplantability of canine thyroid carcinoma through 30 generations in mixed-breed puppies (ab), M. W. Allam et al, June, 918
- urinary excretion and plasma levels of free ninhydrin reactive compounds in irradiated rats (ab), R. E. Kay et al, May, 796
- use of small laboratory animals in medical radiation biology. IV. Correlation of physical factors with biological effect produced by total-body irradiation of guinea-pigs (ab), Friedrich Ellinger et al, June, 917
- x-irradiation and liver regeneration in partially hepatectomized rats (ab), Leon L. Gershbsin, April, 635
- films**
  - disaster monitoring with amateur photographic film and with dental x-ray film, Margarete Ehrlich, Feb., 251
  - photographic badges for estimation of quality of x and gamma radiation (ab), B. W. Soole, June, 916
  - x-ray studies of photographic film; National Bureau of Standards, U.S. Department of Commerce, March, 422
- fluoroscopy.** See also Cardiovascular System; Thorax; other subheads under Roentgen Rays
  - cerebral cineangiography with image intensifier (ab), H. Verbiest and J. Feddema, June, 907
  - dark adaptation with limited light and color vision, Frederic N. Silverman and Jerome Cohen, May, 733
  - shoe-fitting x-ray fluoroscopes; radiation measurements and hazards (ab), E. D. Dyson, June, 915
- high-voltage.** See Roentgen Therapy, high-voltage injurious effects. See also Roentgen Rays, protection against
  - damage to intrauterine fetus by roentgen rays (ab), Marko Bašić and Danica Weber, Feb., 312
  - effect of antepartum diagnostic roentgenography on white blood cell count of newborn infant, Irwin H. Kaiser and James F. Marvin, Feb., 249
  - effect of radiation on esophagus; clinical and histologic study of effects produced by betatron, William B. Seaman and Lauren V. Ackerman, April, 534
  - experimental studies. See Roentgen Rays, effects
  - fatal pulmonary insufficiency due to radiation effect upon lung (ab), Daniel J. Stone et al, June, 915
  - genetic speculation based upon animal experimentation in relation to actual human experiences, in treatment of female infertility and sterility by x-ray therapy (ab), Ira I. Kaplan, April, 633
  - genetically significant radiation dose from diagnostic use of x-rays in England and Wales; preliminary survey (ab), S. B. Osborn and E. E. Smith, May, 793
  - osteogenic sarcoma of phalanx after chronic irradiation (ab), Robert E. Carroll et al, June, 915
  - pathological anatomy of changes involving pulmonary parenchyma after high doses of x-rays (ab), Harold Henzi, June, 915
  - roentgenographic examinations and radiation hazard (ab), J. Camerman, Jan., 153
  - roentgenoscopic examinations as hazard to patients (use of so-called chemical protector, mercaptoethylamin; trade name, Bécaptan disulfure Labaz) (ab), Z. M. Baqç, May, 792
  - some effects of ionizing radiation on physiology of gastrointestinal tract: review (ab), Robert A. Conard, June, 916
- physics.** See also Dosimeters and Dosimetry; Ionization Chambers; Physics; Roentgen Therapy; other subheads under Roentgen Rays
  - physical measurements on a 4-MEV linear accelerator, C. A. Murison and H. A. Hughes, March, 367
- protection against.** See also Roentgen Rays, effects
  - attenuation of 86- and 176-MEV synchrotron x-rays in concrete and lead (ab), William Miller and Robert J. Kennedy, April, 636
  - dosages in diagnostic roentgenology (ab), R. Janker, March, 473
  - photographic personnel dosimeter for x-radiation in range from 30 kev to beyond 1 MEV, Margarete Ehrlich, April, 549
  - protection of ovaries from radiation (ab), Richard Batten and D. E. Meredith Brown, May, 791

- radiation protection for general practitioner (ab), Lauriston S. Taylor, June, 916
- x-ray exposure in dermatology personnel (ab), G. Thomas Jansen and Arthur C. Curtis, May, 792
- technic.** See also Body-Section Roentgenography; Brain, roentgenography; Cineangiography; Colon, roentgenography; Kymography; Spine, intervertebral disks
  - improvement of definition by x-ray image magnification (ab), A. Nemet and W. F. Cox, April, 618
  - monochromatic roentgen rays in contrast media roentgenography (ab), Michel Ter-Pogossian, Feb., 301
- technicians.** See Technicians
- ROENTGEN THERAPY**
  - See also Betatron; Cancer, radiotherapy; Radiotherapy; under diseases, organs, and regions
  - cranial immobilization device for use in roentgen therapy, Bernard Roswit, Cyprian B. Reid and Stanley J. Malsky, March, 419
  - immobilization of head during rotational x-ray therapy, Harry L. Berman, April, 579
  - monitoring filters in roentgen therapy (ab), R. Thoraeus, March, 466
  - Monte Carlo calculations on spectrum of scattered radiation produced in water by x-ray beams of interest in radiotherapy, W. R. Bruce and H. E. Johns, Jan., 100
  - physical measurements on a 4-MEV linear accelerator, C. A. Murison and H. A. Hughes, March, 367
  - relation of tumor size to radiosensitivity, Charles M. Nice, Jr., April, 555
  - report on use of convergent beam therapy (ab), G. E. Flatman and R. E. Ellis, Jan., 148
  - rotation therapy with a 2-MEV Van de Graaff generator (ab), K. F. Orton, Feb., 307
  - x-rays in dermatology (ab), Herbert Rattner et al, May, 792
- dosage.** See also Dosimeters and Dosimetry; Ionization Chambers
  - dosage data for 4 million volt x-rays (ab), D. Greene and F. W. Tranter, Feb., 308
  - dose distribution in conical rotation therapy at 2 MEV (from Van de Graaff generator), William Alan Jennings and Alice L. McCrea, Jan., 104
  - dose distribution in conical rotation therapy with a 2-MEV generator, W. A. Jennings and A. L. McCrea, May, 689
  - electronic isodose computer for planning multiportal radiation therapy, featuring instantaneous display of isodose curves with continuous variability of position and fractional dose in each field, Glen Sandberg and W. S. Moos, Jan., 103
  - percentage depth dose in moving-field therapy, W. Alan Jennings, May, 698
  - therapeutic use of single doses of total-body radiation (ab), Vincent P. Collins and R. Kenneth Loffler, Jan., 148
  - time-dose relationships (ab), Lucille A. Du Sault, Jan., 148
- grid therapy.** See Cancer, radiotherapy; Neck high-voltage. See also Lungs, cancer; Roentgen Rays, effects; Roentgen Therapy, dosage
  - clinical evaluation of results in supravoltage x-ray therapy (ab), G. W. Blomfield, Feb., 306
- ROGERS, JAMES V., Jr., and ROBERTO, ALBERT E.:** Circumscribed pulmonary lesions in periarteritis nodosa and Wegener's granulomatosis (ab), May, 765
- ROGERS, WILLIAM K. See DOMM, SHELDON E.**
- ROKITSNEY-ASCHOFF SINUSES.** See Gallbladder
- ROSE, J. DUDFIELD.** See MALLÉ, GUY, PIERRE
- ROSEBERG, BERTIL.** See KERNWEIN, GRAHAM A.
- ROSENBERG, NORMAN, REICH, RUDOLPH, and KROHN, MELVIN:** Prognosis and early diagnosis of nonunion of femoral neck fractures by laminography (ab), June, 902
- ROSENBLUM, DAVID, NUSSBAUM, ARNOLD, and SCHWARTZ, SOLOMON:** Partial obstruction of the inferior vena cava by herniation of the liver through the foramen of Morgagni. A case report, March, 399
- ROSENBURG, SIDNEY A., and SAMPSON, ARNOLD:** The syndrome of mesenteric vascular compression of the duodenum. Report of eleven cases with operative correction (ab), June, 896
- ROSENDAL, TH. See BOESEN, IB**
- ROSS, DONALD E.:** Cancer of the thyroid gland (ab), June, 912
- ROSS, F. G. M.:** Radiosensitive bone tumours—radiological aspects (ab), Feb., 302
- ROSS, S. W. See TOCHILIN, E.**
- ROSS, STEVEN.** See CAFFEY, JOHN
- ROSSALL, R. E., and GUNNING, A. J.:** Basal horizontal lines on chest radiographs. Significance in heart-disease (ab), April, 603
- ROSSI, HARALD H., and FAILLA, G.:** Tissue equivalent ionization chambers (ab), March, 465
- ROSSI, L., and MAGGIPIINTO, B.:** New radiologic methods in gynecology. Aortography and pelvic arteriography (ab), Feb., 299
- ROSWIT, BERNARD, REID, CYPRIAN B., and MALSKEY, STANLEY J.:** A cranial immobilization device for use in roentgen therapy, March, 419
- See KAPLAN, GUSTAVE
- ROTATION THERAPY.** See Radioactivity, radiocobalt; Roentgen Therapy
- RÓTH, M., and JÓNA, I.:** Diagnostic value of percutaneous splenoportography (ab), April, 606
- ROTH, W. See BREITNER, J.**
- ROTHSCHILD, MARCUS A. See BAUMAN, ARTHUR**

- ROUNDS, WAYNE M., and EVANS, TITUS C.:** Recording of radioactivity in the blood, liver and prostate following interstitial administration of  $Au^{198}$  in carcinoma of the prostate (ab), April, 629
- ROUSSEL, J., SCHOUMACHER, P., and PERNOT, Mme.:** Bone lesions secondary to cancer of uterus (ab), March, 453
- ROWE, CAROLINE W., and HAGGARD, MARY E.:** Bone infarcts in sickle-cell anemia, May, 661
- ROWE, GEORGE G., HUSTON, JOHN H., TUCHMAN, H., MAXWELL, GEORGE M., WEINSTEIN, ARVIN B., and CRUMPTON, CHARLES W.:** Physiological effect of contrast media used for angiocardiology (ab), April, 604
- RUBIDIUM.** See Radioactivity, rubidium
- RUBIN, PHILIP, and BESSE, BYRON E., Jr.:** Sialographic differentiation of Mikulicz's disease and Mikulicz's syndrome, April, 477
- RUBINSTEIN, CHARLES:** Some aspects of mass x-ray surveys for tuberculosis in New South Wales (ab), Feb., 283
- RUDOLPH, GUILFORD G., and OLSEN, NORMAN S.:** Transfer of potassium between blood, cerebrospinal fluid and brain tissue (ab), May, 789
- RUDY, HAROLD L.** See CLARKE, B. G.
- RÜBE, W.** See HACKENTHAL, H.
- RUFFATO, CESARE.** See PERUZZI, GASTONE
- RUGGIERO, GIOVANNI:** Diagnostic value of encephalographic examination of the subarachnoid space (ab), May, 753
- RUNDLE, F. P., SELDON, W. A., and INDYK, J. S.:** A radioiodine uptake test and its application in clinical diagnosis (ab), March, 467
- RUSSELL, MURRAY.** See KAUFMAN, JOSEPH J.
- RYAN, BERNARD K.** See STEINBERG, ISRAEL
- RYAN, JOSEPH M.** See MURPHY, THOMAS O.
- RYBAK, B.** See REMOLAR, JORGE
- RYDER, CHARLES T.** See CAFFEY, JOHN
- S**
- SABANAS, ALVINA O., BICKEL, WILLIAM H., and MOE, JOHN H.:** Natural history of osteoid osteoma of the spine. Review of literature and report of three cases (ab), June, 901
- SACHER, GEORGE A.** See GRAHN, DOUGLAS
- SACHS, MAURICE D., and PARTINGTON, PHILIP F.:** Cholangiographic diagnosis of pancreatitis (ab), June, 897
- SACROCOCCYGEAL REGION**
- unusual bilateral sacrococcygeal ossicles, William S. Cornwell and George H. Ramsey, Jan., 70
- SAENGER, EUGENE L.** See ISHERWOOD, JOHN A.
- SALINGER, HANS, and FRIEDMAN-BAROU, HANNAH:** Use of different tube shifts in lung tomography, Feb., 209
- SALIVARY GLANDS**
- case of bilateral parotid calculi (ab), M. G. Varadarajan, April, 600
  - further clinical studies of thyroid and salivary gland function with radiiodine (ab), C. H. Jaimes and H. G. Thode, April, 627
  - iodide "mumps" after intravenous urography (ab), Ralph M. Sussman and Jay Miller, June, 905
  - salivary and thyroidal radioiodide clearances of plasma in various states of thyroid function (ab), Karl Fellingner et al, Feb., 309
  - sialographic differentiation of Mikulicz's disease and Mikulicz's syndrome, Philip Rubin and Byron E. Besse, Jr., April, 477
  - sialography (ab), Joseph Winsten et al, Jan., 123
  - sialography (ed), John F. Holt, 584
  - technic of sialography (ab), A. Robinson Thomas, Feb., 279
- SALMONELLA**
- Salmonella bacteremia: case with miliary lung lesions and spondylitis, R. H. Greenspan and S. B. Feinberg, June, 860
- SALOTTI, AD., and LUNGHETTI, D.:** Functional roentgenologic findings in vascular disorders (ab), Jan., 131
- SALTZ, NATHAN J., LUTTWAK, EDMUND M., SCHWARTZ, ARMIN, and GOLDBERG, GIL M.:** Danger of aortography in the localization of pheochromocytoma (ab), May, 785
- SALZMAN, FERDINAND A.** See WISE, ROBERT E.
- SAMET, PHILIP, and ANDERSON, WILLIAM:** Pendular motion of the mediastinum (ab), April, 602
- SAMPSON, ARNOLD.** See ROSENBERG, SIDNEY A.
- SAMPSON, J. J., FELTON, L. R., GOETZ, A. A., SOLOMON, R., and KEXELRAD, B.:** Portable scintillation roentgenkymography in acute myocardial infarction (ab), March, 440
- SANDBERG, GLEN, and MOOS, W. S.:** An electronic isodose computer for planning multipoint radiation therapy, featuring instantaneous display of isodose curves with continuous variability of position and fractional dose in each field, Jan., 103
- SANDHAUS, SOL.** See MURPHY, THOMAS O.
- SANTAGADA, A., and PIAZZI, M.:** Contribution to the radiologic study of intrathoracic goiter with axial transverse stratigraphy (ab), Jan., 127
- SANTE, L. R.** See CHYNN, KUO-YORK
- SANTINI, L. C.** See HINKEL, C. L.
- SAPP, OSCAR L.** See CROSBY, WILLIAM H.
- SARCOIDOSIS**
- differential diagnosis between aluminum lung and Boeck's sarcoid; correction of article by K. H. Ehreke (ab), F. Leicher, March, 438
  - roentgenographic study of skeletal lesions in sarcoidosis (ab), George N. Stein et al, March, 453
- SARCOMA**
- See also Tumors, experimental; under diseases, organs, and regions
  - angiosarcoma**
    - of bone: review of literature and presentation of case (ab), John H. Carter et al, May, 778
  - Kaposi's**
    - bone changes; analysis of 15 cases occurring in Bantu Africans (ab), A. G. M. Davies, May, 779
  - lymphosarcoma.** See also Tumors, experimental
    - clinical picture, therapy, and prognosis: experiences of Department of Radiation Therapy of University of Zurich from 1936 to 1951 (ab), Adolph J. Gretener, Jan., 147
    - of large bowel (ab), Martins da Silva, May, 773
  - osteosarcoma**
    - osteomyelitis and sarcoma (ab), F. De Witte, Jan., 139
  - reticulosarcoma**
    - atypical reticulum-cell sarcoma of skeletal system (ab), G. Keiser and H. Hartmann, June, 898
    - reticulum-cell sarcoma of rats; apparent inhibition by x irradiation (ab), David V. Brown and Theodore A. Thorson, Feb., 313
  - spindle-cell**
    - of vagina: case treated by radium implant (ab), Paul Strickland and H. C. Perry, Feb., 305
- SAUER, WILLIAM G.** See DEAN, DAVID L.
- SAWYER, KENNETH C., HAMMER, RAYMOND W., and FENTON, WARD C.:** Gastric volvulus as a cause of obstruction. Report of seven cases (ab), March, 447
- SCALP**
- perifolliculitis capitis abscedens et suffodiens: its successful treatment with x-ray epilation (ab), Francis H. McMullan and Israel Zeligman, May, 787
- SCAPHOID BONE, CARPAL**
- naviculo-capitate fracture syndrome (ab), Richard L. Fenton, April, 613
- SCARCELLA, GIUSEPPE:** Encephalomalacia simulating the clinical and radiological aspects of brain tumor. A report of six cases (ab), May, 759
- SCHÄRER, K.:** Radiation therapy of carcinoma of the esophagus (ab), Jan., 144
- SCHAFFNER, EDUARDO.** See LEBORGNE, FELIX E.
- SCHATTEN, WILLIAM.** See COLE, JACK W.
- SCHAUMAN, S.** See ORAVISTO, E. J.
- SCHER, KURT E.** See BECKER, JOSEF
- SCHIEFF, SAUL, BEDNARZ, WALLACE W., and LEVENE, GEORGE:** Roentgenologic aspects of retropleural hematomas following sympathectomy, Feb., 224
- See LEVENE, GEORGE
- SCHERER, EBERHARD, FIEBELKORN, HANS-JOACHIM, and GÖBEL, BRUNO:** Contribution to the clinical features, prognosis, and therapy of struma maligna (ab), March, 463
- SCHICK, ROBERT E.:** Aftercare following intraluminal cobalt therapy for carcinoma of the bladder (ab), Feb., 312
- SCHIEFER, W.:** Diagnostic value of functional serial angiography in intracranial lesions (ab), May, 755
- SCHIFFER, K. H.:** Developmental changes of the skull as seen on roentgenograms (ab), May, 760
- SCHILD, DONALD P., HARVEY, W. PROCTOR, and HUFNAGEL, CHARLES A.:** Rheumatoid spondylitis and aortic insufficiency (ab), May, 781
- SCHIRREN, CARL G.** See van CANNIEHEM, PIERRE
- SCHLOSSER, RALPH J., and HARKINS, HENRY N.:** Pulmonary arteriovenous aneurysm. Report of six cases (ab), June, 893
- SCHLUGER, JOSEPH, ARCOMANO, JOSEPH, and CARDON, ORSON P.:** Leiomyoma of the esophagus (ab), March, 446
- SCHMIDT, ERNST A.:** The differential x-ray diagnosis of pulmonary carcinoma (ab), Jan., 125
- SCHMIDT, HERBERT W.** See BRUWER, ANDRÉ J.
- SCHMITZ, HERBERT E.:** Opportunity and cervix cancer (ab), April, 619
- SCHNEIDER, MARTIN, and CEBALLOS, JORGE:** Bi-axial roentgenkymography: an aid in differential diagnosis of solid mediastinal tumor and aneurysm (ab), Feb., 286
- SCHOEN, IRWIN.** See ISAAC, FRANK
- SCHOENBERGER, JAMES A., KROLL, GEORGE, ECKERT, EDWARD L., and KARK, ROBERT M.:** Investigation of transfer rates of albumin tagged with  $I^{131}$  in ascites and edema. II. Studies in control subjects and patients with cirrhosis (ab), March, 469
- SCHOOLMAN, HAROLD M., and SCHWARTZ, STEVEN O.:** Aplastic anemia secondary to intravenous therapy with radiogold. Report of a case (ab), Jan., 152
- SCHORR, S., FRÄNKEL, M., and ADLER, E.:** Right unilateral thoracic spondylitis (ab), May, 781
- See ABRAMOV, A.
- SCHOUMACHER, P.** See ROUSSEL, J.
- SCHROEDER, G., and ANDERSCH, H.:** Diffuse progressive interstitial pulmonary fibrosis (Hamman-Rich syndrome) (ab), April, 601
- SCHUBERT, G., KÜNKEL, H. A., OVERBECK, L., and UHLMANN, G.:** Investigation into experimental production of cancer by local beta irradiation (ab), May, 794
- SCHUCH, ROBERT M.** See ANDERSON, ERNEST C.
- SCHULTZ, ALVIN L.** See ZIEVE, LESLIE

- SCHULTZ, E. C., and HUSTON, WILLIAM A.:** Arteriovenous aneurysm of the posterior fossa in an infant. Report of a case (ab), Jan., 121
- SCHULTZ, R. J.** See **MEURK, M. L.**
- SCHULTZE, GUNTER.** See **DAVES, MARVIN L.**
- SCHULZE, H.-E.:** Concerning the roentgen diagnosis of intracranial dermoids (so-called cholesteatoma) (ab), Feb., 278
- SCHWARTZ, ARMIN.** See **SALTZ, NATHAN J.**
- SCHWARTZ, LEONARD H.** See **JACOBSON, GEORGE**
- SCHWARTZ, MILES J.** See **STONE, DANIEL J.**
- SCHWARTZ, SOLOMON.** See **ROSENBLUM, DAVID**
- SCHWARTZ, STEVEN O.** See **SCHOOLMAN, HAROLD M.**
- SCHWENKENBECHER, HELLMUT:** Results of radiotherapy of brain tumors 1945-1954 (ab), May, 785
- SCIATICA**  
—treatment of low-back and sciatic pain by injection of hydrocortisone into degenerated intervertebral disks (ab), Henry L. Feffer, April, 612
- SCINTILLATION COUNTERS.** See **Counters**
- SCLERODERMA**  
—pericardial effusion in generalized scleroderma (ab), Jay I. Meltzer, Feb., 287  
—scleroderma (progressive systemic sclerosis) associated with cancer of lung: brief review and report of case (ab), Sigmund M. Jonsson and Joseph M. Houser, June, 889
- SCLEROSIS, TUBEROUS**  
—pulmonary tuberosus sclerosis: case (ab), André J. Bruwer et al, Feb., 283
- SCOLIOSIS.** See **Spine, curvature**
- SCROTUM**  
—carcinoma (ab), Gustave Kaplan et al, Feb., 306
- SCUDERI, CARLO:** Herniated lumbar intervertebral disks. An eight-year survey (ab), Feb., 296
- SEALANDER, JOHN A., Jr.:** Influence of temperature stress on uptake of  $P^{32}$  in the rat (ab), June, 918
- SEAMAN, WILLIAM B., and ACKERMAN, LAUREN V.:** Effect of radiation on the esophagus. A clinical and histologic study of the effects produced by the betatron, April, 534  
—and **EAGLETON, MARK D.:** Radiation therapy of neuroblastoma, Jan., 1
- See **POWERS, WILLIAM E.**
- SECREST, PETTUS G.** See **KENDIG, TOM A.**
- SEIBERT, R. A.** See **SMITH, E. L.**
- SEIDEL, KARL:** Depth doses in roentgen grid irradiation (ab), Feb., 309
- SELDON, W. A.** See **RUNDLE, F. F.**
- SELLA TURCICA**  
—encephalography of sellar and parasellar tumors, with particular reference to anteroposterior projection and olfactory sulci (ab), Joseph Hanelin and Louis Bakay, May, 754
- SILVERSTONE, B., YUAN, R. H. P., and ROBINSON, C. V.:** Improved syringe for angiography (ab), March, 461
- SENDRA, L.** See **PHELINE, CH.**
- See **VIALLET, P.**
- SEPP, PETER:** The phosphamidase in cells of vaginal smears in cervix carcinoma before and after radiotherapy (ab), Jan., 146
- SEPULVEDA, BERNARDO.** See **FALOMIR, JOSÉ M.**
- SESAMOID BONE.** See **Fibula**
- SETÄLÄ, KAI, and SIURALA, MAX:** Roentgenologic signs of chronic gastritis (ab), Jan., 131
- SEX**  
—sex difference in response to titrated irradiation therapy ( $^{32}P$ ) of patients with chronic granulocytic leukemia (ab), William H. Crosby et al, May, 788
- SEYMOUR, P. H.** See **BOND, V. P.**
- See **CARTER, R. E.**
- SHACKFORD, B. C.** See **KENDIG, TOM A.**
- SHAPIRO, B. J., and SIMOR, E. S.:** Thrombosis of internal carotid artery (ab), Jan., 130
- SHAPIRO, JEROME.** See **NETSKY, MARTIN G.**
- SHAPIRO, JEROME H.** See **JACOBSON, HAROLD G.**
- See **POPP, MAXWELL H.**
- SHAPIRO, ROBERT.** See **GLASSMAN, IRVING**
- SHARP, ANDREW G., ANDERSON, EMORY H., ACKER, EARLE D., and THIELEN, ARTHUR J.:** The importance of the translumbar aortogram and peripheral arteriogram in the management of vascular disease (ab), May, 768
- SHAW, E. G., and TAYLOR, J. G.:** Results of lumbo-sacral fusion for low back pain (ab), March, 455
- SHAW, ROBERT S.:** Vascular responses to intra-arterial Diodrast and Urokon during arteriography (ab), March, 443
- SHEK, JOHN L., COPE, JEROME A., and MYERS, GORDON D.:** Giant air cyst(s) as a sequela of pulmonary tuberculosis (ab), May, 766
- SHELDON, PHILIP.** See **JEFFERSON, ANTONY**
- SHEPARD, EDMUND:** Multiple epiphyseal dysplasia (ab), March, 452
- SHERMAN, ROBERT S., and SOONG, KENNETH Y.:** Aneurysmal bone cyst: its roentgen diagnosis, Jan., 54
- and **WILNER, DANIEL:** Roentgenological diagnosis of hypergrugosity of the stomach (ab), Feb., 290
- SHIRER, J. F.** See **ALLAM, M. W.**
- SHOE-FITTING.** See **Roentgen Rays, fluoroscopy**
- SHORT, D. S.:** Radiology of the lung in left heart failure (ab), Feb., 287
- SHOULDER**  
—arthrography as diagnostic aid in tendon injuries (ab), Graham A. Kernwein et al, Feb., 297  
—posterior dislocation (ab), Sylvester J. O'Connor and Albert S. Jacknow, Feb., 297
- SHUMWAY, B. W., and GOLDEN, R.:** Electron beam dosimetry of a 2-Mev Van de Graaff accelerator, Jan., 104
- See **TOCHILIN, E.**
- SHUNTS.** See **Blood, circulation**
- SHWACHMAN, HARRY, PRYLES, CHARLES V., and GROSS, ROBERT E.:** Meconium ileus. A clinical study of twenty surviving patients (ab), Jan., 132
- SIALOGRAPHY.** See **Salivary Glands**
- SIDEROSIS**  
—pulmonary changes in welders: 3 cases (ab), Robert Charr, April, 602
- SIEGEL, ELSIE P., HART, HIRAME, BROTHERS, MILTON, SPENCER, HERTA, and LASZLO, DANIEL:** Radio-yttrium ( $Y^{90}$ ) for the palliative treatment of effusions due to malignancy (ab), April, 630
- DI SIENO, ANTONIO, and GUARESCHI, BRUNO:** The radiologic picture of medullary sponge kidney: review of the literature and presentation of two cases (ab), Jan., 141
- SIGMOID**  
—value of lateral view of rectosigmoid (ab), G. Osborne et al, Feb., 293  
—vertebral osteomyelitis following operation on urinary tract or sigmoid: third lesion of uncommon syndrome (ab), Edwin L. Lane, March, 454
- cancer**  
—intussusception as cause of "disappearing" carcinoma of rectum (sigmoid) (ab), Harvey J. Dworken, Feb., 293
- SILICOSES.** See **Intestines, volvulus**
- SILICOSIS.** See **Pneumoconiosis**
- da SILVA, MARTINS:** Lymphosarcoma of the large bowel (ab), May, 773
- SILVER, MAURICE L.** See **GOLDIN, RALPH R.**
- SILVERMAN, FREDERIC N., and COHEN, JEROME:** Dark adaptation with limited light and color vision, May, 733
- See **TAYEBI, HOOSHANG**
- SILVERMAN, WILLIAM A.** See **CAFFEY, JOHN**
- SILVIS, RICHARD S., HUGHES, WILLIAM F., and HOLMES, FRANCIS H.:** Aneurysm of the renal artery (ab), Jan., 142
- SIMAS, WILSON.** See **HOFFMAN, HOWARD A.**
- SIMOR, E. S.** See **SHAPIRO, B. J.**
- SIMPSON, ELLEN.** See **KEATS, THEODORE E.**
- SIMPSON, JOHN W.** See **ISHERWOOD, JOHN A.**
- SINGLETON, A. O., Jr., and COLEMAN, JAMES L.:** Residual common duct calculi (ab), March, 449
- SINGLETON, EDWARD B.:** The radiographic features of severe idiopathic hypercalcemia of infancy, May, 721
- and **BILES, E. WILEY:** Mediastinal tumors in children (ab), June, 891
- and **HARRISON, GUNYON H.:** Excretory pyelography in infants. Technique for intravenous injection (ab), March, 458
- SINUSES, PARANASAL**  
—inflammatory craniopathies. Various stages in development of theory (ab), Mario Bertolotti, Feb., 278  
—role of sinusitis in bronchiectasis (ab), R. M. Versteegh and J. Swierenga, June, 891
- cancer**  
—treatment of cancer of nasal cavity and paranasal sinuses (ab), James W. Hendrick, Jan., 143
- SINUS TRACTS**  
—interdigital sinuses in barber's hand (ab), H. D. W. Powell, Jan., 140
- SIURALA, MAX.** See **SETÄLÄ, KAI**
- SIWE-LETTERER DISEASE.** See **Reticuloendothelial System**
- SJÖGREN, S. E.:** The anterior choroidal artery (ab), May, 761
- See **AZAMBUJA, N.**
- SKARSGARD, L. D., CORMACK, D. V., and JOHNS, H. E.:** Measurement of the ratio  $E_m/J_m$  for betatron radiation, Feb., 257
- SKELETON.** See **Bones**
- SKIN**  
See also **Urticaria**  
—irradiation of advanced cancer of head and neck through grid. Part I. Study of absorbed dose by observation of skin and mucosal reactions, Milton Friedman and Alexander W. Pearlman, June, 852  
—skin replacement for severe radiation dermatitis of face (ab), John J. Conley, March, 475  
—spreading effect of x-rays as measured by intradermal pressure (ab), H. Certa and H.-J. Heite, Jan., 155  
—treatment of skin tumors of inner canthus with regard to function of lacrimal ducts (ab), Hansrudolph Renfer, Jan., 143  
—x-ray exposure in dermatology personnel (ab), G. Thomas Jansen and Arthur C. Curtis, May, 792  
—x-rays in dermatology (ab), Herbert Rattner et al, May, 792
- SKLAROFF, DAVID M.:** Treatment of hemangiomas with the strontium-90 beta-ray applicator, Jan., 87
- SKOKAN, Z. V., and STOLZ, J.:** Branchiogenic intrathoracic mediastino-thymic cyst (ab), May, 767
- SKULL.** See **Cranium**
- SLADE, HARRY W., and GLAZER, NORMAN M.:** Paraphysal cyst of the third ventricle (ab), Jan., 122

- SLANINA, JOSEF:** Fabella distalis: a new sesamoid bone (ab), May, 784
- SLATER, GREGORY S.** See **KRAFT, ERNEST**
- SLOAN, HERBERT.** See **FIGLEY, MELVIN M.**
- SLOSS, PIERCE T.** See **WEED, LYLE A.**
- SMART, JOSEPH, and HILTON, GWEN:** Radiotherapy of cancer of the lung. Results in a selected group of cases (ab), May, 785
- and **PATTINSON, J. N.:** Congenital absence of left pulmonary artery (ab), Jan., 130
- SMITH, E. E.** See **OSBORN, S. B.**
- SMITH, E. L., HUGGINS, R. A., KRAINTZ, L., SEIBERT, R. A., and DEAVERS, S.:** Determination of cell volume in massive transfusions using  $Fe^{59}$  and  $Cr^{51}$  (ab), May, 790
- SMITH, GEORGE W., and NICHOLS, POMEROY, JR.:** The technic of cervical discography, May, 718
- SMITH, J. CHANDLER:** Superiority of surgical treatment of endometrial carcinoma (ab), Feb., 304
- SMITH, SIDNEY A.** See **BROOKS, PHILLIPS M.**
- SMITH, VERNON H.** See **GOLDBERG, H. M.**
- SMOLIK, EDMUND A., MUETHER, RAYMOND O., NASH, FRANCIS P., and KONNEKER, WILFRED:** Blood volume changes in cases of cerebral trauma as determined by radioactive isotopes (ab), Jan., 152
- SMYTH, IVOR P.:** Bilateral osteochondritis of the middle cuneiform bone. Case report, April, 575
- SNEED, WILLIAM R., JR.** See **KERNWEIN, GRAHAM A.**
- SNIDER, RAY S.** See **LEE, JOHN C.**
- SNOW, WILLIAM, and HOLLINGSWORTH, JOHN C.:** Self-retaining barium-enema tip: improvement, March, 418
- SODIUM ACETRIZOATE.** See **Pycelography**
- SODIUM DIATRIZOATE (Hypaque).** See **Pycelography**
- SODIUM, RADIOACTIVE.** See **Radioactivity, radiosodium**
- SØRENSEN, EDVIN.** See **AMUNDSEN, P.**
- SOILA, PEKKA:** Pantomography of deep layers. A preliminary report (ab), March, 461
- SOKOLOFF, MARTIN J.** See **STEIN, SAMUEL C.**
- SOLOFF, LOUIS A., and ZATUCHNI, JACOB:** The angiocardigraphic diagnosis of left atrial thrombosis (ab), May, 767
- **ZATUCHNI, JACOB, STAUFFER, HERBERT M., and KELLY, EUGENE W.:** Angiocardiographic observations of intracardiac flow in the normal and in mitral stenosis (ab), Jan., 128
- SOLOMON, R.** See **SAMPSON, J. J.**
- SONES, MAURICE.** See **STEIN, GEORGE N.**
- SOOLE, B. W.:** Photographic badges for the estimation of the quality of x and gamma radiation (ab), June, 916
- SOONG, KENNETH Y.** See **SHERMAN, ROBERT S.**
- SOSIN, ALLEN.** See **MARTMER, EDGAR E.**
- SOTEROPOULOS, C., KAWASHIMA, E., and GILMORE, JOHN H.:** Cystitis and ureteritis emphysematosa, June, 866
- SOWERBUTTS, J. G.** See **GREEN, B.**
- SPARKMAN, ROBERT S., and ELLIS, PAUL R.:** Intravenous cholecyst-cholangiography in emergency abdominal diagnosis (ab), March, 450
- SPASM.** See **Bronchi**
- SPECTROMETRY**
- scintillation spectrometer, measuring instrument in radiological practice (ab), Walter Kolb, 911
- SPECTRUM AND SPECTRUM ANALYSIS**
- Monte Carlo calculations on spectrum of scattered radiation produced in water by x-ray beams of interest in radiotherapy, W. R. Bruce and H. E. Johns, Jan., 100
- SPENCER, HERTA.** See **SIEGEL, ELSIE P.**
- SPENSLEY, ROBERT D., NELSON, ROBERT E., and CHILDS, WESLEY A.:** Unusual causes of free intraperitoneal air in acute conditions of the abdomen (ab), Jan., 131
- SPIERS, F. W.:** Radioactivity in man and his environment (ab), June, 914
- SPINA BIFIDA**
- incidence of spina bifida occulta in relation to age (ab), Wataru W. Sutow and Arthur W. Pryde, Jan., 139
- SPINAL CANAL ROENTGENOGRAPHY**
- See also **Spinal Cord; Spine, intervertebral disks**
- cervical oil myelography with full hyperextension of neck; modified technic (ab), F. Dalith, May, 762
- SPINAL CORD**
- abnormal swallowing in central-nervous-system and neuromuscular disease (ab), Maxwell H. Poppel et al, Jan., 123
- measurement of cervical spinal cord in Pantopaque myelography (ab), Edward C. Porter, June, 902
- tumors**
- importance of myelography in spinal pathology; analytical study of 150 cases (ab), F. J. Borrelli and A. A. Maglione, June, 900
- myelographically demonstrated lesions of cervical intervertebral disks, co-existing with tumors and other causes of myelopathy (ab), Fritz Cramer and Frank Hudson, May, 783
- myelography of complete spinal obstruction (ab), Arthur S. Tucker, June, 900
- pinealoma with metastases in central nervous system; rationale of treatment (ab), Fred D. Fowler et al, March, 462
- roentgen study in children (ab), J. Lefebvre et al, May, 784
- wounds and injuries**
- contrast medium injury to spinal cord produced by aortography; pathologic anatomy of experimental lesion (ab), G. Margolis et al, May, 770

## SPINE

- See also **Atlas and Axis; Sacrococcygeal Region**
- accessory bones of intervertebral disks and spondylosis deformans (ab), G. Teichert, Feb., 296
- hoarseness and painful deglutition due to massive cervical exostoses (ab), Charles V. Heck, April, 600
- results of lumbosacral fusion for low back pain (ab), E. G. Shaw and J. G. Taylor, March, 455
- right unilateral thoracic spondylosis (ab), S. Schorr et al, May, 781
- studies in dynamics of spine (ab), Jan. Jirout, May, 780
- vertebral changes in childhood leukemia, Bernard S. Epstein, Jan., 65
- abnormalities**
- accessory bones of intervertebral disks and spondylosis deformans (ab), G. Teichert, Feb., 296
- congenital deformities of surgical importance (ab), Thomas N. Cowie, May, 780
- etiology of osseous bridges between lumbar transverse processes (ab), E. de Cuveland, May, 781
- arthritis**
- osteo-arthritis occlusion of intervertebral foramina of cervical spine (ab), Geoffrey Doel, May, 781
- rheumatoid spondylitis and aortic insufficiency (ab), Donald P. Schilder et al, May, 781
- cancer**
- vertebral metastasis in renal carcinoma: anatomic correlation (ab), George T. Wohl, March, 454
- vertebral trephine biopsy (for determination of cancer metastasis) (ab), Wolfgang Ackermann, March, 455
- curvature**
- paralytic scoliosis (ab), J. I. P. James, June, 899
- paralytic scoliosis (ab), Robert Roaf, June, 899
- cysts**
- extradural cysts of spine (ab), G. Lombardi and A. Passerini, March, 453
- diseases**
- infectious spondylitis following damage to anterior longitudinal ligament (contribution to spondylitis following paravertebral anesthesia) (ab), W. Porstmann, May, 783
- non-specific spondylitis in children (ab), H. Wissler, April, 612
- Salmonella bacteremia: case with miliary lung lesions and spondylitis, R. H. Greenspan and S. B. Feinberg, June, 860
- dislocations**
- headache from subluxation of cervical articulations (ab), Ákos Kovács, June, 887
- spondylolisthesis: autopsy study. Preliminary report, Palmer E. Wigby and John R. Thomas, Jan., 94
- tuberculosis at site of spondylolisthesis (ab), A. H. C. Ratliff, Jan., 139
- fractures**
- hidden anvil fracture of seventh cervical vertebral body (ab), M. C. Harrison and Ian Macnab, March, 454
- in children (ab), Otto Lehmann, April, 611
- intervertebral disks**
- accessory bones of intervertebral disks and spondylosis deformans (ab), G. Teichert, Feb., 296
- asymptomatic disk protrusions (ab), Donald L. McRae, May, 782
- clinical significance of discography (ab), L. Walk, May, 782
- herniated lumbar disks; 8-year survey, Carlo Scuderi, Feb., 296
- importance of myelography in spinal pathology; analytical study of 150 cases (ab), F. J. Borrelli and A. A. Maglione, June, 900
- myelographically demonstrated lesions of cervical disks, co-existing with tumors and other causes of myelopathy (ab), Fritz Cramer and Frank Hudson, May, 783
- myelography of complete spinal obstruction (ab), Arthur S. Tucker, June, 900
- roentgen diagnosis of herniated disk with particular reference to discography (nucleography) (ab), William G. Peacher and Richard P. Storrs, June, 901
- suboccipital gas myelography in diagnosis of herniated disk in cervical segment (ab), H. H. Jacobsen, May, 783
- technic of cervical discography, George W. Smith and Pomeroy Nichols, Jr., May, 718
- treatment of low-back and sciatic pain by injection of hydrocortisone into degenerated disks (ab), Henry L. Feffer, April, 612
- osteomyelitis**
- vertebral osteomyelitis following operation on urinary tract or sigmoid; third lesion of uncommon syndrome (ab), Edwin L. Lame, March, 454
- roentgenography.** See also other subheads under **Spine**
- comparative roentgen findings in symptomatic and asymptomatic backs, Tom M. Fullenlove and A. Justin Williams, April, 572
- tuberculosis**
- at site of spondylolisthesis (ab), A. H. C. Ratliff, Jan., 139
- tumors**
- natural history of osteoid osteoma of spine; review of literature and report of 3 cases (ab), Alvina O. Sabanas et al, June, 901
- SPLEEN**
- effect of total-body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), Kee-Chang Huang and James H. Bondurant, April, 635

**SPLEEN—cont.**

- incorporation of  $N^{15}$ -labeled glycine in plasma protein, plasma phospholipids, blood nonprotein nitrogen, and splenic tissue in man (ab), D. S. Amatuzio et al, March, 472
  - influence of x-ray on oxygen consumption of spleen and thymus glands of rats (ab), Maurice F. Sullivan and Kenneth P. DuBois, Feb., 314
  - pancreaticosplenectomy combined with gastrectomy in cancer of stomach (ab), Komei Nakayama, June, 894
  - reaction of mouse spleen to x-rays measured by changes in organ weight (ab), Robert F. Kallman and Henry I. Kohn, Feb., 314
  - roentgenographically demonstrable splenic deposits in sickle-cell anemia (ab), George Jacobson and Sidney D. Zucherman, June, 905
  - roentgenography.** See also other headings under spleen
    - colloidal stannic oxide; animal studies on new hepatolienographic agent, Harry W. Fischer, April, 488
    - diagnostic value of percutaneous splenoportography (ab), M. Róth and L. Jóna, April, 606
    - does "laparoscopic" splenoportography indicate an advance in field of medical x-ray diagnosis? Contribution to early diagnosis of intrahepatic obstruction (ab), L. Wannagat, March, 451
    - extrahepatic portal hypertension (portal vein thrombosis) diagnosed by percutaneous splenic venography (ab), Hector F. Rodriguez et al, April, 606
    - splenoportography for diagnosis of portal hypertension (ab), José M. Falomir et al, May, 777
    - splenoportography: valuable adjunct in study of portal hypertension (ab), Hector F. Rodriguez et al, May, 776
  - rupture**
    - roentgenologic diagnosis of ruptured spleen (ab), C. C. Wang and Laurence L. Robbins, Jan., 137
  - SPONDYLITIS.** See Spine
  - SPONDYLOLISTHESIS.** See Spine, dislocations
  - SPONDYLOSIS.** See Spine
  - SPRAFA, JOSEPH L.** See LEVY, LOUIS M.
  - SPRUNT, WILLIAM H., III.** See BREAM, CHARLES A.
  - STAGGERS, FRANK E.** See HAHN, P. F.
  - STALEY, CHARLES J.** Skeletal metastases in cancer of the breast (ab), April, 610
  - STANBURY, JOHN B., MEIJER, J. W. A., and KASSENAAR, A. A. H.** The metabolism of iodotyrosines II. The metabolism of mono- and di-iodotyrosine in certain patients with familial goiter (ab), June, 912
  - STANDER, RICHARD W.** Vaginal metastases following treatment of endometrial carcinoma (ab), Feb., 304
  - STANNIC OXIDE.** See Tin
  - STANSFELD, ALFRED G.** See MAUDSLEY, ROY H.
  - STAPHYLOCOCCI**
    - experimental staphylococcal bullous pneumopathy (ab), R. Herbeval and G. Dehry, May, 767
  - STAPLETON, G. E., and EDINGTON, C. W.** Temperature dependence of bacterial inactivation by x-rays (ab), June, 918
  - STARK, ERNEST, VAN BUSKIRK, FREDERICK W., and DALY, JOHN F.** Radiologic and pathologic bone changes associated with urticaria pigmentosa. Report of a case (ab), June, 899
  - STARR, PAUL.** See CATZ, BORIS
  - STARVATION**
    - responses to whole-body x-irradiation in starved rat (ab), L. F. Nims and J. L. Geisselsoder, May, 795
  - STAUFFER, H. M.** See OPPENHEIMER, M. J.
  - See SOLOFF, LOUIS A.
  - STEELMAN, SANFORD L.** See BEST, WILLIAM R.
  - STEGMAN, KENNETH F.** See CARNESALE, PETER L.
  - STEIN, GEORGE N., ISRAEL, HAROLD L., and SONES, MAURICE.** A roentgenographic study of skeletal lesions in sarcoidosis (ab), March, 453
  - STEIN, JOSEPH.** See POPPEL, MAXWELL H.
  - STEIN, JUSTIN J.** See WARREN, STAFFORD L.
  - STEIN, SAMUEL C., and SOKOLOFF, MARTIN J.** Calcification of regional lymph nodes following BCG vaccination (ab), Jan., 124
  - STEINBACH, HOWARD L., and JOHNSTONE, HERBERT G.** Roentgen diagnosis of Armillifer infection (porocephalosis) in man, Feb., 234
  - See JONES, MALCOLM D.
  - STEINBERG, ISRAEL, and FINBY, NATHANIEL.** Angiocardiology in the diagnosis of sacular aneurysm of the abdominal aorta. Report of a case (ab), June, 892
  - Clinical manifestations of the unperforated aortic sinus aneurysm (ab), May, 779
  - See MERTEN, CHARLES W.
  - and RYAN, BERNARD K.: Corner positioning for visualization of the brachiocephalic vessels, Feb., 242
  - STEINGRABER, O. J.** See MILLER, C. E.
  - STERILITY**
    - genetic speculation based upon animal experimentation in relation to actual human experiments, in treatment of female infertility and sterility by x-ray therapy (ab), Ira I. Kaplan, April, 633
  - STERN, ARON M.** See FIGLEY, MELVIN M.
  - STERN, WILHELM.** See JACOBSON, HAROLD G.
  - STERNUM**
    - technic and normal radiographic anatomy of sternum (ab), Emilio Balzarini and Giuseppe Pompili, May, 780
  - STEVENS, KEITH A.** See MOWATT, KEITH S.
  - STEWART, A. M., and WYNN-WILLIAMS, A.** Combined tricuspid and pulmonary atresia with juxtaposition of the aorticles (ab), April, 605
  - STEWART, G. H., III.** See OPPENHEIMER, M. J.
  - STEWART, H. B., and COLE, E. R.** Progressive diaphysal dysplasia (Engelmann's disease) (ab), Feb., 295
  - STICKLEY, E. E.** Neutron capture therapy: slow neutron depth distribution measurements in tissue (ab), Jan., 150
  - STOLL, BASIL A.** New drugs for irradiation sickness, March, 380
  - Radiosensitivity of granulosa-cell tumor of the ovary (ab), April, 620
  - STOLZ, J.** See SKOKAN, Z. V.
  - STOMACH**
    - See also Gastrointestinal Tract
    - delayed visualization of gallbladder due to gastric retention (ab), S. A. Leader, May, 774
    - effects of artificial gaseous distension of stomach and its role in making liver radiologically visible (ab), N. R. Konar et al, Feb., 292
    - tubeless gastric analysis in study of acid secretion following gastric irradiation for peptic ulcer (ab), John T. Galambos and Joseph B. Kirsner, Feb., 306
  - calcification.** See Stomach, cancer
  - See also Peptic Ulcer, cancer and peptic ulcer
  - calcification in carcinoma; case report, Tom A. Kendig, Max R. Gaspar, Pettus G. Secrest and B. C. Shackford, Jan., 80
  - carcinoma of esophagus and gastric cardia (ab), Denis Fuller, June, 908
  - diagnostic significance of radioactive isotopes in early cancer of alimentary tract, especially esophagus and cardia (ab), Komei Nakayama, April, 630
  - difficulties in diagnosis of carcinoma in region of cardia (ab), Conway Don and D. J. L. Murphy, March, 446
  - of gastric stump (ab), E. de Arzúa Zulaica, Feb., 291
  - pancreaticosplenectomy combined with gastrectomy in cancer of stomach (ab), Komei Nakayama, June, 894
  - results of surgery in carcinoma discovered by periodic roentgen examination (ab), John R. Amberg and Leo G. Rigler, April, 607
- cardiospasm**
  - achalasia of cardia and mega-esophagus; 5 representative cases (ab), Charles H. Brown and C. Peter Albright, May, 772
- diseases**
  - primary amyloidosis; case of gastric involvement only (ab), Anthony D. Intrieh and Charles H. Brown, March, 447
- inflammation**
  - roentgenologic signs of chronic gastritis (ab), Kai Setälä and Max Siurala, Jan., 131
- mucosa**
  - roentgenologic diagnosis of hyperrugosity (ab), Robert S. Sherman and Daniel Wilner, Feb., 290
- obstruction.** See Stomach, volvulus
- roentgenography.** See also other subheads under Stomach
  - pharmacoradiography (ab), J. Pfeiffer, Feb., 292
  - roentgenologic findings in stomach and duodenum in cancer of pancreas (ab), Kaare A. Larsen and Arne Pedersen, April, 608
  - roentgenologically demonstrable gastric abnormalities in cases of previous congenital pyloric stenosis (ab), O. Steinicke Nielsen and M. Roelsgaard, Feb., 290
  - transverse colon in right inguinal hernia with confusing distortion of stomach (ab), Ralph V. Gieselman et al, Feb., 292
- surgery**
  - closed loop obstruction of afferent limb; late complication of antecolic partial gastrectomy (ab), N. Hajdu et al, June, 895
  - peptic ulcer, partial gastrectomy, and pulmonary tuberculosis (ab), P. A. Thorn et al, Jan., 124
- ulcers.** See Peptic Ulcer
- volvulus**
  - acute volvulus (ab), H. M. Goldberg and Vernon H. Smith, March, 447
  - as cause of obstruction; 7 cases (ab), Kenneth C. Sawyer et al, March, 447
  - some diagnostic difficulties in cases with cascade stomach and chronic gastric volvulus (ab), Paul M. Davies, June, 894
- STONE, DANIEL J., SCHWARTZ, MILES J., and GREEN, ROBERT A.** Fatal pulmonary insufficiency due to radiation effect upon the lung (ab), June, 915
- STONER, RICHARD D.** See WILLIAMS, WILLIAM L.
- STORAASLI, JOHN P., and KING, DONALD P.** Four cases illustrating the use of  $I^{131}$  in the management of metastatic carcinoma of the thyroid (ab), April, 628
- STORM, OLE.** See BOESCH, IB
- STORRS, RICHARD P.** See PEACHER, WILLIAM G.
- STRANG, CHRISTOPHER.** The fate of children with bronchiectasis (ab), April, 602
- STRATIGRAPHY.** See Body-Section Roentgenography
- STRICKLAND, PAUL, and PERRY, H. C.** Spindle cell sarcoma of the vagina. A case treated by radium implant (ab), Feb., 305
- STRIDR.** See Larynx
- STRITTMATTER, W. C., BROWN, C. H., and TRETBAR, H. A.** A large carcinoma of the adrenal. Report of a case, Feb., 231
- STRONTIUM.** See Radioactivity, radiostrontium

- STRUMA MALIGNA.** See Thyroid, cancer
- STUART, CHARLES:** Acute pancreatitis. Preliminary investigation of a new radiodiagnostic sign (ab), May, 773
- STUART, F. G.:** Osteoid osteoma of the ischium with hip joint complications (ab), April, 613
- STUBBS, E. L.** See ALLAM, M. W.
- SUBARACHNOID SPACE.** See Meninges
- SUSSE, H. J.:** Dangers and technic of osteomyelography and transosseous venography (ab), June, 906
- SULCUS, OLFACTORY.** See Brain, tumors
- SULFIDES**  
—disulfide reduction and release of iodide 131 following irradiation of  $^{131}\text{I}$  labeled proteins, Rosalyn S. Yalow and Solomon A. Berson, Jan., 100
- SULFUR, RADIOACTIVE.** See Radioactivity, radiosulfur
- SULLIVAN, MAURICE F., and DuBOIS, KENNETH P.:** Influence of x-ray on oxygen consumption of spleen and thymus glands of rats (ab), Feb., 314
- SUMMATION IMAGE.** See Roentgen Rays, diagnosis
- SUPPLEE, HELEN, WEINMAN, E. O., and ENTENMAN, C.:** Enlargement of the liver in Sprague-Dawley rats following whole-body x-irradiation (ab), April, 635
- SURGERY**  
See also under diseases, organs, and regions, as Stomach, surgery; Uterus, cancer  
—skin replacement for severe radiation dermatitis of face (ab), John J. Conley, March, 475  
—surgical management of local prostration effects (ab), J. J. Longacre, May, 792
- SUSSMAN, BERNARD J.** See FEIRING, EMANUEL H.
- SUSSMAN, MARCY L., and FROST, THOMAS T.:** Secondary vascular changes in the lungs (ab), Feb., 281
- See JACOBSON, GEORGE
- SUSSMAN, RALPH M., and MILLER, JAY:** Iodide "mumps" after intravenous urography (ab), June, 905
- SUTOW, WATARU W., and PRYDE, ARTHUR W.:** Incidence of spina bifida occulta in relation to age (ab), Jan., 139
- SUTTON, DAVID.** See EASTCOTT, H. H. G.
- SUTTON, H.** See CONGDON, C. C.
- SWALLOWING.** See Deglutition
- SWENDESD, MARIAN E.** See HALSTED, JAMES A.
- SWIRENGA, J.** See VERSTEEGH, R. M.
- SWIFT, MARGUERITE N., and TAKETA, S. TOM:** Modification of acute intestinal radiation syndrome through shielding (ab), April, 634
- TAKETA, S. TOM, and BOND, VICTOR P.: Efficacy of hematopoietic protective procedures in rats x-irradiated with intestine shielded (ab), March, 474
- SYCAMORE, LESLIE K.:** Radiologic diagnosis of hiatus hernia (ab), June, 894
- SYMPLECTECTOMY**  
—roentgenologic aspects of retroperal hematomas following symplectomy, Saul Scheff, Wallace W. Bednarz and George Levene, Feb., 224
- SYNCHROTRON; SYNCHROCYCLOTRON.** See Protons; Roentgen Rays, protection against
- SYPHILIS.** See Aneurysm, aortic
- SYRINGE**  
—improved syringe for angiography (ab), B. Selverstone et al., March, 461
- SYVERTON, JEROME T.** See BOUCHER, NORMAN E., Jr.
- T**
- TÄNZER, A.:** Basilar impression (ab), March, 435
- TAKETA, S. TOM.** See SWIFT, MARGUERITE N.
- TALUS.** See Ankle
- TARAZI, A. K.** See MARGOLIS, G.
- TARSUS**  
—bilateral osteochondritis of middle cuneiform bone; case, Ivor P. Smyth, April, 575  
—dysplasia epiphysealis hemimelica (tarsal-epiphyseal aetosis), Theodore E. Keats, April, 558
- TAVERAS, JUAN M.** See MOUNT, LESTER A.
- See POSER, CHARLES M.
- TAYEBI, HOOSHANG, and SILVERMAN, FREDERIC N.:** Congenital defect of the silver orbit and pulsating exophthalmos (ab), June, 886
- TAYLOR, J. G.** See SHAW, E. G.
- TAYLOR, LAURISTON S.:** Radiation protection for the general practitioner (ab), June, 916
- TAYLOR, LAWRENCE:** Cortisone versus x-ray in treatment of subacute thyroiditis: a report of 4 cases (ab), April, 622
- TAYLOR, WILLIAM F.** See KONECCI, EUGENE B.
- TEACHING.** See Education
- TECHNICIANS**  
—International Convention of X-Ray Technicians (Second), March, 426
- TEETH**  
—device for localization of dental remnants in edentulous regions, Morris Owen, April, 582
- TEICHERT, G.:** Accessory bones of the intervertebral disks and spondylosis deformans (ab), Feb., 296
- TELEFILMPLANIGRAPHY.** See Body-Section Roentgenography
- TELEPAQUE.** See Biliary Tract; Gallbladder
- TEMKIN, EUGENE.** See ISAAC, FRANK
- TEMPERATURE**  
—influence of temperature stress on uptake of  $\text{P}^{32}$  in rat (ab), John A. Sealander, Jr., June, 918  
—temperature dependence of bacterial inactivation by x-rays (ab), G. E. Stapleton and C. W. Edington, June, 918
- TEMPORAL BONE**  
—radiological anatomy (ab), Máximo García Castañeda et al., June, 885
- TENDONS**  
—arthrography of shoulder as diagnostic aid in tendon injuries (ab), Graham A. Kernwein et al., Feb., 297
- TENNISON, CHARLES W.** See PRIDGEN, JAMES E.
- TEPLICK, J. GEORGE:** Duodenal loop changes in posterior penetration of duodenal ulcer (ab), March, 447
- TERIDAX.** See Biliary Tract; Gallbladder
- TER-POGOSSIAN, MICHEL:** Monochromatic roentgen rays in contrast media roentgenography (ab), Feb., 301
- TESLUCK, H.** See EYLER, WILLIAM R.
- TESTES**  
—on direct and indirect effects of x-rays on testis of rat (ab), Henry I. Kohn, Feb., 314
- tumors**  
—management of malignant tumors at Radiumhemmet in Stockholm; 247 patients (ab), Gustaf Notter, April, 621
- THEANDER, GEORG:** Cholegraphic signs of acute biliary stasis (ab), April, 610  
On the visualization of the bile ducts in cholegraphy (ab), March, 450  
On the visualization of the renal pelvis in cholegraphy (ab), Feb., 295
- THIELEN, ARTHUR J.** See SHARP, ANDREW G.
- THIGH**  
—arterial disease as cause of pain in buttock and thigh (ab), George Bonney, June, 893
- THIOCYANATES**  
—effect of total-body x-irradiation on plasma volume, red cell volume, blood volume and thiocyanate space in normal and splenectomized rats (ab), Kee-Chang Huang and James H. Bondurant, April, 635
- THODE, H. G.** See JAIMET, C. H.
- THOMAS, A. ROBINSON:** Technique of sialography (ab), Feb., 279
- THOMAS, CHARLES I., and KROHMER, JACK:** A transilluminator for use with the curved Geiger counter. An aid to localization of posterior intraocular tumors (ab), April, 630
- KROHMER, JACK S., MacINTYRE, WILLIAM J., and BOVINGTON, MARY: Small end-window and angle-window Geiger counters. Measurement of radioactivity in intraocular tumors following injection of radioactive phosphorus (ab), April, 630
- THOMAS, COLIN G., Jr.:** Lymphatic dissemination of radio-gold in the presence of lymph node metastases (ab), May, 788
- THOMAS, JOHN R.** See WIGBY, PALMER E.
- THOMLEY, MILES W., ORR, LOUIS M., and CAMPBELL, JAMES L.:** Treatment of inoperable prostatic carcinoma with radioactive gold (ab), April, 629
- THOMPSON, WILLIAM H.** See FINDLEY, JOHN W., Jr.
- THOMSON, FRANK B.:** Residual stone in the biliary ducts (ab), May, 774
- THORACIC DUCT**  
—importance of thoracic duct in spread of malignant disease (ab), Alejandro Celis et al., Jan., 126
- THORAEUS, K.:** Monitoring filters in roentgen therapy (ab), March, 466  
Periodic control of the function and constancy of ionization chamber dose meters (ab), April, 623
- THORAX**  
See also Bronchi; Heart; Lungs; Mediastinum; Ribs; etc.  
—relation of pectus excavatum to heart disease (ab), Fred W. Wachtel et al., May, 769
- mycosis.** See Blastomycosis
- roentgenography**  
—changes in endothoracic organs due to positioning of patient (ab), H. Hackenthal and W. Rube, March, 436  
—lordotic position in fluoroscopy and roentgenography (ab), Berkeley Zinn and James Monroe, Feb., 280  
—modification of routine lateral view to permit visualization of superior mediastinum (ab), Walter Lentino et al., Feb., 285  
—radiologic evaluation of chest lesions in children (ab), Samuel B. Chapman, April, 603  
—teaching of chest radiology to medical students (ab), Charles T. Dotter, April, 603
- tumors.** See also Thyroid, aberrant  
—angiocardiology in intrathoracic tumors with particular reference to question of operability (ab), Per Amundsen and Edvin Sørensen, Jan., 126  
—radiologic picture of intrathoracic tumors of sympathetic nervous system (ab), Leonardo Papagni, March, 439
- THORIUM**  
—analysis of mixtures of radioactive isotopes by  $\gamma$ -ray measurements. Application of method to  $\text{Ac}^{227}$ ,  $\text{Th}^{227}$ , and  $\text{Ra}^{226}$  (ab), D. S. Anthony et al., March, 473  
—case of accidental puncture contaminated with  $\text{Th}^{227}$ ; studies on elimination and residual body activity, P. F. Gustafson, L. D. Marinelli and E. A. Hathaway, March, 358  
—dose to trachea and bronchi from decay products of radon and thoron (ab), A. C. Chamberlain and E. D. Dyson, April, 633

**THORIUM—cont.**

- dioxide
  - atrophy within brain stem area following injection of Thorotrast into vertebral artery; case (ab), Tormod Hauge, June, 883
  - danger of cancer from Thorotrast as diagnostic medium (ab), Earl Budin and J. Gershon-Cohen, April, 632
  - granuloma of neck following Thorotrast angiography (ab), Laurence F. Levy, March, 436
  - hepatic duct carcinoma 17 years after injection of thorium dioxide (ab), James C. Roberts, Jr. and Kenneth E. Carlson, May, 791

**THORN, P. A., BROOKES, V. S., and WATERHOUSE, J. A. H.:** Peptic ulcer, partial gastrectomy, and pulmonary tuberculosis (ab), Jan., 124

**THORON.** See Thorium

**THOROTRAST.** See Thorium dioxide

**THORSON, THEODORE A.** See **BROWN, DAVID B.**

**THROMBOSIS**

- temporary thrombotic state. Application of this concept to therapy of recurrent thrombo-embolism, with bacteriologic and roentgenologic considerations in differential diagnosis of pulmonary infarction and pneumonia (ab), Stanford Wessler et al., Jan., 130

**cardiac**

- angiocardigraphic diagnosis of left atrial thrombosis (ab), Louis A. Soloff and Jacob Zatzuchni, May, 767

**carotid**

- carotid artery occlusion (ab), J. E. Webster et al., May, 756
- of internal carotid artery (ab), B. J. Shapiro and E. S. Simor, Jan., 130
- role of atlantoid compression in etiology of internal carotid thrombosis (ab), Edwin Boldrey et al., Jan., 121

**mesenteric**

- fatality following abdominal arteriography (ab), H. R. Roby and J. W. McKay, Jan., 131

**THURSTON, CONRAD G.** See **HARPER, PAUL V.**

**THYMUS**

- comparative activity of isologous vs. homologous or heterologous mouse bone marrow in promoting regeneration of irradiated mouse thymus (ab), Barbara B. Hirsch et al., May, 795
- influence of x-ray on oxygen consumption of spleen and thymus glands of rats (ab), Maurice F. Sullivan and Kenneth P. DuBois, Feb., 314
- radiologist facing evident and latent thymic hypertrophy (ab), Giovanni F. Gardini and Roberto Betti, June, 910

**CANCER**

- co-occurrence of large leiomyoma of esophagus and squamous-cell carcinoma of thymus; case, with roentgenologic, pathologic and clinical discussion (ab), Howard A. Frank et al., May, 772

**cysts**

- branchiogenic intrathoracic mediastino-thymic cyst (ab), Z. V. Skokan and J. Stolz, May, 767

**tumors**

- indirect induction of lymphomas in irradiated mice. I. Tumor incidence and morphology in mice bearing non-irradiated thymic grafts (ab), Henry S. Kaplan et al., May, 794
- indirect induction of lymphomas in irradiated mice. II. Factor of irradiation of host (ab), Henry S. Kaplan et al., May, 794
- indirect induction of lymphomas in irradiated mice. III. Role of thymic graft (ab), William H. Carnes et al., May, 794
- indirect induction of lymphomas in irradiated mice. IV. Genetic evidence of origin of tumor cells from thymic grafts (ab), Henry S. Kaplan et al., May, 795

**THYROID**

- congenital goiter, W. William Nagle, John W. Hope and Alfred M. Bongiovanni, April, 526
- determination of radioiodine uptake in thyroids by 2 methods (ab), Egilda DeAmicis and Earle W. Williamson, June, 911
- iodine-131 beta particle dosage in small animals, Patricia W. Durbain, James S. Robertson and Joseph G. Hamilton, Jan., 103
- some applications of isotope dilution techniques (ab), Rosalyn S. Yalow and Solomon A. Berson, April, 624
- technical considerations in  $I^{131}$  tracer studies (ab), Robert E. Beck et al., June, 911
- two ways to estimate thyroid dose from radioiodine in fallout (ab), Gordon M. Dunning, March, 468
- uptake of radioiodine by thyroid cells using nuclear emulsion (ab), Adrian G. Bassor, April, 627

**aberrant**

- lingual goiter treated with radioactive iodine (ab), J. Einhorn and L.-G. Larsson, March, 467
- radiologic study of intrathoracic goiter with axial transverse stratigraphy (ab), A. Santagada and M. Piazzi, Jan., 127

**cancer**

- cancer (ab), Donald E. Ross, June, 912
- cancer of thyroid and irradiation (ab), Erich M. Uhlmann, April, 632
- cancer, with metastases to lungs. Condition shown by scintigram in absence of definite x-ray findings (ab), Boris Catz and Paul Starr, Jan., 150

- contribution to clinical features, prognosis, and therapy of struma maligna (ab), Eberhard Scherer et al., March, 463
- four cases illustrating use of  $I^{131}$  in management of metastatic carcinoma (ab), John P. Storaasli and Donald P. King, April, 628
- osseous metastasis of thyroid origin (ab), A. K. Datta Gupta, Feb., 296
- role of radioiodine in treatment of carcinoma (ab), Gwen Hilton et al., April, 627
- serum  $I^{131}$  fractionation in metastatic carcinoma; fate of endogenous radiothyroxine after  $I^{131}$  therapy (ab), Manuel Tubis and Franz K. Bauer, Feb., 311
- transplantability of canine thyroid carcinoma through 30 generations in mixed-breed puppies (ab), M. W. Allam et al., June, 918
- treatment (ab), L. Henry Garland, April, 618

**diseases**

- cortisone versus x-ray in treatment of subacute thyroiditis; 4 cases (ab), Lawrence Taylor, April, 622
- radioiodine uptake in diagnosis of thyroiditis (ab), Elmer C. Paulson, June, 912
- radioiodine uptake test and its application in clinical diagnosis (ab), F. F. Rundle et al., March, 467
- role of radioactive iodine in diagnosis (ab), J. E. Rall, March, 466

**function tests**

- clinical appraisal of radioiodine tests (ab), William M. McComahey et al., April, 626
- further clinical studies of thyroid and salivary gland function with radioiodine (ab), C. H. Jaimet and H. G. Thode, April, 627
- plasma activity levels in radioiodine tests (ab), H. A. Hughes and R. M. Miller, Jan., 150
- salivary and thyroidal radioiodide clearances of plasma in various states of thyroid function (ab), Karl Fellinger et al., Feb., 309
- study of uptake of  $I^{131}$  by thyroid of premature infants (ab), Edgar E. Martner et al., Feb., 309

**hyperthyroidism**

- acute myeloid leukemia after radioactive iodine therapy (ab), John D. Abbott et al., April, 628
- determination of protein-bound  $I^{131}$  with anion exchange resin column (ab), Theodore Fields et al., March, 469
- modern treatment of thyrotoxicosis (ab), George J. Hamwi and Robert F. Goldberg, Feb., 311
- physiologic concepts in diagnosis and treatment of Graves' disease (ab), Brown M. Dobyns, March, 467
- pneumo-thyroid: new procedure for determining mass of thyroid gland for radioiodine treatment of hyperthyroidism (ab), Victor H. Franco and Mario G. Quina, June, 912
- treated with radioiodine; 7-year experience (ab), William H. Beierwaltes and Philip C. Johnson, Feb., 310

**hypothyroidism**

- metabolism of iodotyrosines. II. Metabolism of mono- and di-iodotyrosine in certain patients with familial goiter (ab), John B. Stanbury et al., June, 912

**THYROIDITIS.** See Thyroid, diseases

**THYROTOXICOSIS.** See Thyroid, hyperthyroidism

**THYROXINE**

- serum  $I^{131}$  fractionation in metastatic carcinoma of thyroid; fate of endogenous radiothyroxine after  $I^{131}$  therapy (ab), Manuel Tubis and Franz K. Bauer, Feb., 311

**TIBIA**

- diagnostic and therapeutic obstacles encountered in tibial plateau fractures (ab), Julius S. Neviaser and Sanford H. Eisenberg, April, 613

**TIMED-DISINTEGRATION CAPSULES.** See Barium

**TIN**

- colloidal stannic oxide; animal studies on new hepatolienographic agent, Harry W. Fischer, April, 488

**TITTLE, C. ROBERT.** See **MITCHELL, ROBERT E., Jr.**

**TOCHILIN, E., ROSS, S. W., SHUMWAY, B. W., KOHLER, G. D., and GOLDEN, R.:** Cyclotron neutron and  $\gamma$ -ray dosimetry for animal irradiation studies (ab), Feb., 316

**TODD, EDWIN M.** See **GARDNER, W. JAMES**

**TOMOGRAPHY.** See Body-Section Roentgenography

**TONGUE**

- lingual goiter treated with radioactive iodine (ab), J. Einhorn and L.-G. Larsson, March, 467

**cancer**

- carcinoma; treatment and results without radical surgery (ab), Frank C. Marchetta and Walter L. Mattick, June, 907

**TOONE, ELAM C., Jr., and KELLY, JOHN:** Joint and bone disease due to mycotic infection (ab), Jan., 138

**TORRETTA, A.** See **BELLION, B.**

**TOXINS.** See Antitoxins

**TRACHEA**

- dose to trachea and bronchi from decay products of radon and thoron (ab), A. C. Chamberlain and E. D. Dyson, April, 633
- note on congenital laryngeal stridor (due to tracheomalacia) (ab), T. G. Wilson, April, 601
- roentgen demonstration of movements of ciliated epithelium of trachea; experiments on isolated tracheas of slaughtered animals (ab), H. Birzle, March, 436

**flistula.** See Fistula

**TRANSFUSIONS.** See Blood, transfusions

**TRANSTER, F. W.** See **GREENE, D.**

- TRAUMA.** See Abdomen; Bones; Brain; Spine; Viscera
- TREBAR, H. A.** See **STRITTMATTER, W. C.**
- TRIBUNO, C.** See **BELLION, B.**
- TRICUSPID VALVE**  
—combined tricuspid and pulmonary atresia with juxtaposition of auricles (ab), A. M. Stewart and A. Wynn-Williams, April, 605  
—Ebstein's disease (ab), James W. Brown et al, Jan., 129
- TRIPAC.** See **Pyelography**
- TRIQUETRAL BONE.** See **Wrist**
- TRISTAN, THEODORE A., RAVENTOS, ANTOLIN, and CHAMBERLAIN, RICHARD H.:** Disseminated histiocytosis X (Letterer-Siwe's disease) treated unsuccessfully with radioactive colloidal gold (Au<sup>198</sup>). A case report (ab), June, 913
- TRITIUM**  
—theoretic considerations of radiation dose from discrete tritium sources, J. S. Robertson and W. L. Hughes, Jan., 102
- TROMBKA, J. I.** See **OKAWA, CHIYEKO**
- TROUT, E. DALE:** The use of electron beams in industrial processes, May, 708
- TRÜBSTEIN, HERMANN:** The differentiated histologic findings of lymphogranulomatosis as basis of therapeutic success (ab), March, 465
- TUBERCULOSIS**  
See also Fallopian Tubes; Spine; Tuberculosis, Pulmonary  
—calcification of regional lymph nodes following BCG vaccination (ab), Samuel C. Stein and Martin J. Sokoloff, Jan., 124  
—in infants and children. Review (ab), John S. Chapman, Jan., 123  
—postprimary intrathoracic tuberculosis in childhood, with special reference to its sequelae (ab), R. J. Derham, June, 888  
—tuberculous coin lesions—roentgenological symptom (observations in children and adolescents) (ab), H.-D. Renovanz, March, 438
- TUBERCULOSIS, PULMONARY**  
—giant air cyst(s) as sequela of pulmonary tuberculosis (ab), John L. Shek et al, May, 766  
—peptic ulcer, partial gastrectomy, and pulmonary tuberculosis (ab), P. A. Thorn et al, Jan., 124
- cancer and tuberculosis**  
—bronchogenic carcinoma and pulmonary tuberculosis; problems in diagnosis with special reference to antituberculous chemotherapy (ab), Herman Weissman, June, 888  
—primary pulmonary carcinoma associated with active pulmonary tuberculosis (ab), F. Bender, June, 888
- cavitation in**  
—study of tuberculosis cavities by contrast media and other methods (ab), Oren A. Beatty, March, 437
- in children.** See **Tuberculosis**
- mass roentgenologic surveys**  
—aspects of mass surveys in New South Wales (ab), Charles Rubinstein, Feb., 283  
—mass surveys (ab), A. H. McNaughton, Feb., 282  
—mass surveys (ab), P. S. Woodruff, Feb., 282  
—static mass radiography in London borough (ab), G. Z. Brett et al, Jan., 125  
—tuberculosis studies in Muscogee County, Georgia. V. Tuberculosis mortality during 7 years after community-wide survey (ab), George W. Comstock, Jan., 124
- roentgenography.** See also **Tuberculosis, in children**; other subheads under **Tuberculosis, Pulmonary**  
—correlated bronchographic and histopathologic study of bronchial disease in 216 tuberculous patients (ab), Raymond F. Corpe and Eugene C. Hwa, March, 437  
—factors influencing radiological attack rate of progressive massive fibrosis (ab), A. L. Cochrane and W. E. Miall, March, 438  
—selective angiopneumography and correlative study of bronchography and histopathologic findings in tuberculosis fibrothorax (ab), Rudi Cicero et al, Jan., 124
- TUBIS, MANUEL, and BAUER, FRANZ K.:** Serum I<sup>131</sup> fractionation in metastatic carcinoma of the thyroid. The fate of endogenous radiothyroxine after I<sup>131</sup> therapy (ab), Feb., 311
- TUCHMAN, H.** See **ROWE, GEORGE G.**
- TUCKER, ARTHUR S.:** Myelography of complete spinal obstruction (ab), June, 900
- TUDWAY, ROBERT C.:** Some radiosensitive bone tumours (ab), Feb., 302
- TUGGLE, ALLAN.** See **YOUNGBLOOD, VERNON H.**
- TULAREMIA**  
—pleuropulmonary tularemia: its roentgen manifestations, John M. Dennis and Robert P. Boudreau, Jan., 25
- TULLIS, JOHN L.** See **FURTH, JACOB**
- TUMORS**  
See also **Cancer**; **Sarcoma**; and under names of organs and regions  
**adenoma.** See **Bronchi**; **Lungs, cancer**; **Parathyroid**  
**angioma**  
—cerebral angiography in encephalo-trigeminal angiomatosis, Charles M. Foser and Juan M. Taveras, March, 327  
—hemangioma of small intestine, Seymour Ochsner and Rawlick M. Penick, Jr., June, 845  
—posterior mediastinal hemangioma, S. B. Feinberg, Jan., 90  
—treatment of hemangiomas with strontium-90 beta-ray applicator, David M. Sklaroff, Jan., 87  
—tumor of bone of vascular origin; anatomical-radiological considerations of primary hemangioma of skull (ab), Giovanni Baldini and Luigi Ferri, April, 611  
—unusual case of Lindau's disease. Cystic disease of kidneys and pancreas with renal and cerebellar tumors (hemangioblastoma) (ab), Frank Isaac et al, March, 460
- argentinafinoma**  
—malignant argentafinoma associated with cardiovascular abnormalities (ab), W. R. Eyler et al, Jan., 129
- cholesteatoma**  
—concerning roentgen diagnosis of intracranial dermoids (so-called cholesteatoma) (ab), H.-E. Schulze, Feb., 278
- chondroma**  
—juxtacortical chondroma (ab), Henry L. Jaffe, April, 610
- experimental**  
—effect of peritumoral tissue infiltration with radioactive yttrium on growth and spread of malignant cells (ab), Horace Goldie and Harold D. West, May, 790  
—effect of radiophosphorus and cortisone on transplanted mammary adenocarcinomas in susceptible and resistant mice (ab), Norman E. Boucher, Jr., et al, May, 789  
—effect of single doses of roentgen radiation on experimentally induced gliomas: with critical review of effects of roentgen radiation on gliomas in man (ab), Martin G. Netsky et al, June, 917  
—investigation into experimental production of cancer by local beta irradiation (ab), G. Schubert et al, May, 794  
—relation of tumor size to radioresistance, Charles M. Nice, Jr., April, 555
- fibroma**  
—non-osteogenic fibroma of bone (fibrous metaphyseal defect) (ab), Roy H. Maudsley and Alfred G. Stansfeld, June, 898
- giant-cell**  
—radiotherapy of xanthomatous giant-cell tumors (ab), Sven Hultberg and V. Belloch Zimmermann, June, 909
- glioblastoma.** See **Brain, tumors**
- glioma.** See **Brain, tumors**
- granulosa-cell.** See **Ovary, tumors**
- hamartoma**  
—massive cystic pulmonary hamartosis; 2 cases (ab), Robert C. Jackson et al, Feb., 282
- hemangioma.** See **Tumors, angioma**
- leiomyoma.** See **Tumors, myoma**
- lipoma**  
—multiple lipomas of ileum (ab), John W. Findley, Jr., and William H. Thompson, Jan., 133
- lymphogranuloma.** See **Hodgkin's Disease**
- lymphoma**  
—indirect induction of lymphomas in irradiated mice. I. Tumor incidence and morphology in mice bearing non-irradiated thymic grafts (ab), Henry S. Kaplan et al, May, 794  
—indirect induction of lymphomas in irradiated mice. II. Factor of irradiation of host (ab), Henry S. Kaplan et al, May, 794  
—indirect induction of lymphomas in irradiated mice. III. Role of thymic graft (ab), William H. Carnes et al, May, 794  
—indirect induction of lymphomas in irradiated mice. IV. Genetic evidence of origin of tumor cells from thymic grafts (ab), Henry S. Kaplan et al, May, 795  
—lymph node-vein relationship in lymphoma (ed), Don E. Matthiesen, May, 739  
—therapy of malignant lymphomas. I. Study of 116 cases. II. Review (ab), Charles A. Hall and Kenneth B. Olson, Jan., 147
- meningioma.** See **Meninges, tumors**
- mesothelioma**  
—treatment of peritoneal and pleural mesothelioma and metastatic malignancy with radioactive colloidal gold (ab), F. M. Lyle and Philip S. King, April, 628
- metastases.** See **Cancer, metastases**; **Tumors, mesothelioma**
- myeloma.** See **Bones, marrow**
- myoma**  
—co-occurrence of large leiomyoma of esophagus and squamous-cell carcinoma of thymus; case, with roentgenologic, pathologic and clinical discussion (ab), Howard A. Frank et al, May, 772  
—leiomyoma of esophagus (ab), Joseph Schlager et al, March, 446
- neurinoma**  
—segmental radiography of internal auditory canal in neurinomas of eighth nerve (ab), H. Fischgold et al, May, 761
- neuroblastomas**  
—neuroblastomas in infancy and childhood; review of 10 years experience (ab), C. W. Reigum et al, April, 621  
—protection of ovaries from radiation (for neuroblastoma) (ab), Richard Batten and D. E. Meredith Brown, May, 791  
—radiation therapy, William B. Seaman and Mark D. Eagleton, Jan., 1
- osteoma**  
—natural history of osteoid osteoma of spine; review of literature and report of 3 cases (ab), Alvina O. Sabanas et al, June, 901  
—osteoid osteoma of ischium with hip joint complications (ab), F. G. Stuart, April, 613
- pheochromocytoma**  
—danger of aortography in localization of pheochromocytoma (ab), Nathan J. Saltz et al, May, 785

**TUMORS—cont.**

- pinealoma.** See Pineal Gland polyp
- clinical and radiological study of choanal polyp (ab), D. F. Reynolds and H. J. Groves, Feb., 279
- Wilms'.** See Kidneys, tumors
- TURIAF, J., MARIAND, P., and JEANJEAN, Y.:** Chronic pulmonary infiltration with eosinophilia in the asthmatic. (Five personal observations, including one with histopathologic analysis) (ab), Feb., 283
- See **MARLAND, P.**
- TURNBULL, A. C.:** Radiation menopause or hysterectomy. Part II. Mortality, morbidity, and subsequent pelvic cancer (ab), Feb., 305
- TURNER, ELIZABETH K.:** The Ellis-Creveld syndrome: report of a case (ab), Jan., 139
- TWINS**
- coxa plana in dizygotic male twins (ab), Paul S. Derian, May, 783
- TYOR, MALCOLM P., and ELDRIDGE, JAMES S.:** A comparison of the metabolism of rubidium 86 and potassium 42 following simultaneous injection into man (ab), June, 913
- TYROSINES**
- metabolism of isodityrosines. II. Metabolism of mono- and di-iodotyrosine in certain patients with familial goiter (ab), John B. Stanbury et al, June, 912

**U**

- UEBERSCHÄR, KARL-HEINZ.** See **BIRKNER, RUDOLPH**
- UHLMANN, ERICH M.:** Cancer of the thyroid and irradiation (ab), April, 632
- UHLMANN, G.** See **SCHUBERT, G.**
- ULCERS**
- See also Intestines; Peptic Ulcer; Varicose Veins
- bone changes in tropical ulcer (ab), J. Scott Brown and J. H. Middlemiss, Feb., 296
- ULNA**
- cyst-like structures in proximal end of ulna: anatomic and roentgenological appearance and interpretation (ab), G. Iannaccone and M. Barilla, March, 455
- UNDEM, DALE.** See **PIRKEY, EVERETT L.**
- UNDULANT FEVER**
- chronic localized pulmonary brucellosis (ab), Lyle A. Weed et al, May, 765
- meningoencephalitis due to Brucella abortus (ab), P. Ebeling and E. Graeme Robertson, April, 600
- UPTON, A. C., CONTE, F. P., HURST, G. S., and MILLS, W. A.:** Relative biological effectiveness of fast neutrons, x-rays, and  $\gamma$ -rays for acute lethality in mice (ab), Feb., 316
- UREMIA**
- renal osteodystrophy in adults (ab), I. McLean Baird and F. Lees, May, 779
- URETERS**
- See also Pyelography
- obstructed ureteropelvic junction, Robert Lich, Jr., March, 337
- dilatation**
- megalo-ureter (ab), Evan L. Lewis and Richard W. Cletso-way, Feb., 301
- fistula.** See **Fistula**
- inflammation**
- cystitis and ureteritis emphysematosa, C. Soteropoulos, E. Kawashima and John H. Gilmore, June, 866
- ureteritis cystica and pyelitis cystica; review of cases and roentgenologic criteria, Bernard S. Loitman and Harold Chiat, March, 345
- roentgenography**
- roentgenographic behavior of ureter (ab), Hunter B. Frisch-korn, Jr., March, 458
- significance of ureteral studies in surgery of colon and rectum (ab), H. E. Bacon and L. McCrea, March, 458

**URETHRA**

- CAHNET**
- treatment of tumors (ab), R. H. Flocks, Jan., 146
- fistula.** See **Fistula**
- roentgenography**
- cystourethrography; clinical experience with newer contrast media (ab), Joseph J. Kaufman and Murray Russell, March, 458
- positive pressure urethrography: new diagnostic method (ab), Hugh J. Davis and Louis G. Cian, Feb., 301
- simple instrument for urethrocytography and fistulography in adults and children (ab), Åke Gullmo, April, 616
- urethrocytographic classification of prostatitis (ab), M. L. Prodyn and S. A. Robins, March, 459
- urethrocytography in differential diagnosis of prostatic cancer (ab), K. J. Oravisto and S. Schaumann, April, 615
- tumors**
- treatment (ab), R. H. Flocks, Jan., 146
- URETHROCYSTOGRAPHY.** See **Urethra**
- URETHROGRAPHY.** See **Urethra**
- URINARY TRACT.** See **Bladder; Kidneys; Pyelography**
- URINE**
- plasma, tissue and urinary radioactivity after oral administration of  $^{45}\text{Ca}$ -labeled vitamin B<sub>12</sub> (ab), C. C. Booth and D. L. Mollin, May, 789

- studies in urinary excretion of vitamin B<sub>12</sub>Co<sup>60</sup> in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ab), William R. Best et al, March, 471
- time pattern of vitamin B<sub>12</sub>Co<sup>60</sup> urinary excretion in man after oral administration and parenteral "flushing" (ab), William R. Best et al, March, 472
- urinary excretion and plasma levels of free ninhydrin reactive compounds in x-irradiated rats (ab), R. E. Kay et al, May, 796
- UROGRAPHY.** See **Pyelography**
- UROKON.** See **Arteries, renal; Cardiovascular System; Eyes; Iodine and Iodine Compounds; Pyelography**
- UROLOGY.** See **Kidneys; Ureters; etc.**
- URSO, P., Jr.** See **CONGDON, C. C.**
- URTICARIA**
- radiologic and pathologic bone changes associated with urticaria pigmentosa; case (ab), Ernest Stark et al, June, 899

**UTERUS**

- abnormalities**
- soft-tissue placentography in diagnosis of bicornuate uterus, Robert B. Engle, George Jacobson, and Eleanor R. Fraser, March, 408
- cancer**
- bone lesions secondary to cancer of uterus (ab), J. Roussel et al, March, 453
- cervical cancer: opportunity (weekly radium applications) (ab), Herbert E. Schmitz, April, 619
- cervical carcinoma; action of x-rays on mammalian cells (ab), Theodore T. Puck and Philip I. Marcus, March, 475
- cervical carcinoma associated with pregnancy (ab), Glen E. Hayden, Feb., 304
- cervical carcinoma: 4 years of cooperation of gynecologist and radiotherapist (ab), John A. Isherwood et al, Feb., 304
- cervical carcinoma: intensive divided-dose irradiation therapy: rationale and late results (ab), Robert E. Fricke and David G. Decker, Feb., 304
- cervical carcinoma: phosphamidase in cells of vaginal smears before and after radiotherapy (ab), Peter Sepp, Jan., 146
- cervical carcinoma: surgery as adjunct to irradiation; preliminary report (ab), Edward J. Crawford, Jr., et al, April, 620
- cervical carcinoma: 10-year study with comparison of results of irradiation and radical surgery, Ralph S. Clayton, Sr., Jan., 74
- dose decrease in bladder and rectum in gynecologic radium treatments (ab), August Verhagen, Jan., 146
- importance of intestinal flora in radiation treatment of gynecological carcinomata (ab), J. Bretnier and W. Roth, April, 621
- moving field therapy of gynecological tumors in pelvis (ab), H. J. Maurer, June, 909
- radiation menopause or hysterectomy. Part II. Mortality, morbidity, and subsequent cancer (ab), A. C. Turnbull, Feb., 305
- superiority of surgical treatment of endometrial carcinoma (ab), J. Chandler Smith, Feb., 304
- study of 531 cases of endometrial carcinoma (ab), John H. Randall and William B. Goddard, June, 909
- treatment of choice in cancer of corpus (ab), John B. Graham, April, 620
- treatment of endometrial adenocarcinoma. Study of 381 cases at New York Hospital. Preliminary report (ab), Carl T. Javert and R. Gordon Douglas, Jan., 145
- vaginal metastases following treatment of endometrial carcinoma (ab), Richard W. Stander, Feb., 304
- cervix.** See **Uterus, cancer**
- hemorrhage**
- radiation menopause or hysterectomy. Part II. Mortality, morbidity, and subsequent pelvic cancer (ab), A. C. Turnbull, Feb., 305
- roentgenography**
- hystero-uterography in diagnosis of dead and retained human ovum (ab), Juan C. Ahumada et al, April, 614

**V****VAGINA**

- atresia of vagina in infancy (ab), Robert H. Whittlesey et al, June, 902
- cancer**
- primary cancer: irradiation management and end-results, Walter T. Murphy, Feb., 157
- vaginal metastases following treatment of endometrial carcinoma (ab), Richard W. Stander, Feb., 304
- tumors**
- spindle-cell sarcoma; case treated by radium implant (ab), Paul Strickland and H. C. Perry, Feb., 305
- van BUCHEM, F. S. P.:** Dilatation of the pulmonary artery in pulmonary stenosis (ab), March, 442
- van BUSKIRK, FREDERICK W.** See **STARK, ERNEST**
- van CANEGHEM, PIERRE, and SCHIRREN, CARL G.:** Animal experiments on radiosensitivity of growing bone (ab), May, 796
- van CREVELD-ELLIS SYNDROME.** See **Ectodermal Defect**
- VAN de GRAAFF ACCELERATOR; GENERATOR.** See **Electrons; Roentgen Therapy**

- VARADARAJAN, M. G.:** Case of bilateral parotid calculi (ab), April, 600
- VARCO, RICHARD L.** See **GOTT, VINCENT L.**
- VARICOSE VEINS**  
—lesions of bones of leg in course of varicose ulcers (ab), A. Poirault, May, 783
- VEINS**  
See also Aneurysm; Portal Vein; Varicose Veins; Venae Cavae  
**brachiocephalic**  
—corner positioning for visualization of brachiocephalic vessels, Israel Steinberg and Bernard K. Ryan, Feb., 242  
**cerebral.** See Brain, blood supply  
**fistula.** See Fistula  
**innominate.** See Veins, brachiocephalic  
**pulmonary.** See also Fistula, arteriovenous  
—anomalous pulmonary venous drainage (ab), John B. Hickie et al, May, 769  
—mitral stenosis associated with anomalous pulmonary venous drainage into left superior vena cava (ab), M. M. Zion, March, 441  
—posteroanterior chest roentgenogram in two types of anomalous pulmonary venous connection (ab), André J. Bruwer, May, 770  
—total anomalous pulmonary return; analysis of 30 cases (ab), Vincent L. Gott et al, Feb., 288
- roentgenography.** See also Extremities, blood supply; Portal Vein; Venae Cavae; other subheads under Veins  
—dangers and technic of osteomyelography and transosseous venography (ab), H. J. Süssé, June, 906
- VENAE CAVAE**  
—congenital aneurysm of superior vena cava (ab), G. H. Lawrence and T. H. Burford, Feb., 287  
—mitral stenosis associated with anomalous pulmonary venous drainage into left superior vena cava (ab), M. M. Zion, March, 441  
—partial obstruction of inferior vena cava by herniation of liver through foramen of Morgagni; case, David Rosenblum, Arnold Nussbaum and Solomon Schwartz, March, 399  
—roentgen examination of inferior vena cava in retroperitoneal expanding processes (ab), C. G. Helander and Å. Lindbom, Feb., 288  
—venography in superior vena caval obstruction, Granville W. Hudson, April, 499
- VENTRICULOGRAPHY.** See Brain, roentgenography
- VERBIEST, H.:** Contribution to the methods of filling the posterior fossa and the adjoining cervical subarachnoid space with small quantities of air (ab), June, 883
- and **FEDDEMA, J.:** Cerebral cine-angiography with the image intensifier (ab), June, 907
- VERHAGEN, AUGUST:** Dose decrease in bladder and rectum in gynecologic radium treatments (ab), Jan., 146
- VERSTEEGH, R. M., and SWIERENGA, J.:** Role of sinusitis in bronchiectasis (ab), June, 891
- VERTÉBRAL, See Spine**
- VETTER, HERBERT.** See **FELLINGER, KARL**
- VIALET, P., SENDRA, L., CHEVROT, L., COMBE, P., DESCUNS, P., and AUBRY, P.:** New method of total simultaneous cerebral angiography by rapid intravenous injection (ab), May, 755
- See **PHELINE, CH.**
- et al.: Simple angiographic method for the study of the greater circulation. "Enlarged" angiocardipneumography (ab), March, 443
- VIETEN, HEINZ:** Cerebral serial angiography on 70 mm. film size (ab), June, 882
- VINSON-PLUMMER SYNDROME.** See Deglutition, disorders
- VIRDEN, C. EDGAR,** President of Radiological Society of North America (ed), Ira H. Lockwood, Feb., 262
- VISCERA**  
See also Abdomen: under names of viscera  
—changes in endothoracic organs due to positioning of patient (ab), H. Hackenthal and W. Rube, March, 436  
—trauma to abdominal and retroperitoneal viscera as it concerns radiologist (ab), J. Cash King, April, 617
- transposition**  
—Kartagener's syndrome; case (ab), E. Finkler, March, 460  
—Kartagener's syndrome in newborn infant (ab), Samuel J. Nichamin, May, 766  
—Kartagener's triad (situs inversus, bronchiectasis, and sinusitis); case (ab), David L. Deutsch, June, 891
- VISCIDOL.** See Bronchi, roentgenography
- VITAL CAPACITY**  
—lung compartment determination (ab), John C. Kovach et al, Feb., 280  
—roentgenologic evaluation of pulmonary function; correlation with physiologic studies of ventilation (ab), Robert P. Barden and Julius H. Comroe, Jr., Feb., 280
- VITAMINS**  
**B**  
—evaluation of fecal recovery method for determining intestinal absorption of cobalt<sup>60</sup>-labeled vitamin B<sub>12</sub> (ab), James A. Halsted et al, May, 790  
—plasma, tissue and urinary radioactivity after oral administration of <sup>60</sup>Co-labeled vitamin B<sub>12</sub> (ab), C. C. Booth and D. L. Mollin, May, 789  
—studies on urinary excretion of vitamin B<sub>12</sub>Co<sup>60</sup> in pernicious anemia for determining effective dosage of intrinsic factor concentrates (ab), William R. Best et al, March, 471  
—time pattern of vitamin B<sub>12</sub>Co<sup>60</sup> urinary excretion in man after oral administration and parenteral "flushing" (ab), William R. Best et al, March, 472
- VOGEL, HOWARD H., Jr., CLARK, JOHN W., and JORDAN, DONN L.:** Comparative mortality following single whole body exposures of mice to fission neutrons and Co<sup>60</sup> gamma rays, March, 386
- VOGEL, WILLIAM C.** See **ZIEVE, LESLIE**
- VOMITING**  
—some rare causes of vomiting in infancy and childhood (ab), S. P. Rawson, March, 460
- VONDRAŠEK, STANLEY C.** See **PERRY, JOHN F., Jr.**
- VREELAND, HOWARD W.** See **KLIGERMAN, MORTON M.**
- W**
- WACHSMANN, FELIX, and YIANNAKOPOULOS, APOSTOLOS:** Dependence of the latency period of radiobiologic reaction on the size of the dose (ab), May, 793
- WACHTEL, FRED W., RAVITCH, MARK M., and GRISHMAN, ARTHUR:** The relation of pectus excavatum to heart disease (ab), May, 769
- WALD, ARNOLD M.:** Nephrography during routine excretory urography (ab), Jan., 142
- WALK, L.:** Clinical significance of discography (ab), May, 782
- WALKER, PHYLLIS.** See **ISAAC, FRANK**
- WALLER, ROBERT D., and ROBERTS, S. M.:** Cholecystographic visualization of the Rokitsky-Aschoff sinuses: report of a case and review of the literature (ab), April, 609
- WALLWORK, DAVID W.** See **GANEM, EMIL J.**
- WALSTAM, RUNE.** See **LINDELL, BO**
- WALTON, HOWARD, Jr.** See **GRAHN, DOUGLAS**
- WANG, C. C., and ROBBINS, LAURENCE L.:** Roentgenologic diagnosis of ruptured spleen (ab), Jan., 137
- WANGENSTEEN, OWEN H.** See **PERRY, JOHN F., Jr.**
- WANNAGAT, L.:** Does "laparoscopic" splenoportography indicate an advance in the field of medical x-ray diagnosis? A contribution to the early diagnosis of intrahepatic obstruction (ab), March, 451
- WAR**  
—roentgenological findings of small intestine in 100 repatriated prisoners of war. Deficiency states and worm infestations (ab), Walter Francke, May, 773
- WARD, GRANT E.** See **WINSTEN, JOSEPH**
- WARD, M. W. P.** See **OSBORNE, G.**
- WARNER, ROBERT S.** See **CHRISTENSEN, WM. R.**
- WARREN, STAFFORD L., and STEIN, JUSTIN J.:** Radiological defense plans in California (ab), Feb., 312
- WASSERBURGER, KARL:** Treatment of Dupuytren's contracture (ab), June, 910
- WATER**  
—Monte Carlo calculations on spectrum of scattered radiations produced in water by x-ray beams of interest in radiotherapy, W. R. Bruce and H. E. Johns, Jan., 100  
—studies of dose distributions in water for betatron x-rays up to 37 MEV (ab), B. Zende et al, June, 910
- WATERHOUSE, J. A. H.** See **THORN, P. A.**
- WATERMAN, DAVID H.** See **DOMM, SHELDON E.**
- WATKINS, IVAN.** See **HOECKER, FRANK E.**
- WATSON, J. A.** See **CEMBER, H.**
- WATSON, T. A.:** Supravoltage roentgen therapy in cancer of the lung (ab), Jan., 144
- WATSON, WILLIAM L.** See **CARROLL, ROBERT E.**
- WEBER, DANICA.** See **BASIC, MARKO**
- WEBER, HARRY M.** See **FERRIS, DEWARD O.**
- WEBSTER, D. H.:** Pulmonary nocardiosis. A review with a report of seven cases (ab), Feb., 285
- WEBSTER, J. E., GURDJIAN, E. S., and MARTIN, F. A.:** Carotid artery occlusion (ab), May, 756
- WEED, LYLE A., SLOSS, PIERCE T., and CLAGETT, O. THERON:** Chronic localized pulmonary brucellosis (ab), May, 765
- WEGELIUS, CARL.** See **BOESEN, IB**
- WEGENER'S GRANULOMATOSIS.** See **Granuloma**
- WEIGHT**  
—analysis of effects of total body x-irradiation on body weight of white Swiss mice. II. Body-weight changes of male mice as biological dosimeter (ab), William H. Chapman and Edward A. Jerome, April, 633
- WEINBERG, JOSEPH A.** See **JOHNSTON, PAUL W.**
- WEINMAN, E. O.** See **SUPPLEE, HELEN**
- WEINSTEIN, ARVIN B.** See **ROWE, GEORGE G.**
- WEIR, ROYAL A., and LIZAMA, CARLOS:** Operative cholangiography. Survey of 83 cases in 232 cholecystectomies (ab), Feb., 294
- WEISSMAN, HERMAN:** Bronchogenic carcinoma and pulmonary tuberculosis. Problems in diagnosis with special reference to antituberculous chemotherapy (ab), June, 888
- WEISSMAN, IRVING, WORDEN, JAMES P., and CHRISTIE, JAMES M.:** Mediastinal parathyroid carcinoma with metastases. Report of a case and review of the literature, March, 352
- WELDERS.** See Industry and Occupations
- WELLAUER, J., and DEL BUONO, M.:** Experiences with Triopac. A new tri-iodine-containing contrast material, for intravenous urography (ab), May, 785
- WELLENS, P.:** Unusual roentgenologic aspects of pulmonary metastases (ab), Feb., 282

- WELLS, HERSCHEL J. See MACK, ROBERT E.
- WESSLER, STANFORD, COHEN, SIDNEY, and FLEISCHNER, FELIX G.: The temporary thrombotic state. Application of this concept to the therapy of recurrent thrombo-embolism, with bacteriologic and roentgenologic considerations in the differential diagnosis of pulmonary infarction and pneumonia (ab), Jan., 130
- WEST, GEORGE V. See GANEM, EMIL J.
- WEST, HAROLD D. See GOLDIE, HORACE
- WESTERGART, JOHN P. See BAUER, FRANZ K.
- WETHERLEY-MEIN, G., HUTT, M. R. S., LANGMEAD, W. A., and HILL, M. J.: Radioactive iron studies in routine haematological practice (ab), April, 631
- WHITAKER, WILLIAM. See BROWN, JAMES W.
- WHITE, WILFRID F. See BEST, WILLIAM R.
- WHITEHEAD, RICHARD W. See LANIER, RAYMOND R.
- WHITEHOUSE, W. See FRANKSSON, C.
- WHITEHOUSE, WALTER M.: Re-evaluation of fat-free preparatory meal in Telepaque cholecystography (ab), May, 775
- WHITMORE, G. F. See JOHNS, H. E.
- WHITTLESEY, ROBERT H., ATIK, MOHAMMAD, and JONES, JAMES C.: Arteria of the vagina in infancy (ab), June, 902
- WICK, ARNE N. See DRURY, DOUGLAS R.
- WICKBOM, I.: Angiography and pneumography in the diagnosis of slightly space-occupying supratentorial tumours (ab), May, 758
- WIESER, C.: Volumetric findings in the emptying test in non-calculous cholecystopathies (ab), March, 450
- WIGBY, PALMER E., and THOMAS, JOHN R.: Spondylolisthesis: an autopsy study. Preliminary report, Jan., 94
- WILBUR, KARL M. See BERNHEIM, FREDERICK
- WILDER, ROBERT J., MOSCOVITZ, L., and RAVITCH, MARK M.: Transventricular and aortic angiocardiology and physiologic studies in dogs with experimental mitral and aortic insufficiency (ab), May, 771
- WILDERMUTH, ORLISS, and EVANS, JOHN C.: The special problem of cancer of eyelid (ab), June, 908
- WILK, S. P. See WOODRUFF, J. H., Jr.
- WILKS, SYRREL S. See KONECCI, EUGENE B.
- WILLIAMS, J. A. JUSTIN. See FULLENLOVE, TOM M.
- WILLIAMS, JEROME O. See YOUNGBLOOD, VERNON H.
- WILLIAMS, MARVIN M. D., and CHILDS, DONALD S., Jr.: Diagnostic tests that depend on radioisotope localization (ab), April, 623
- WILLIAMS, WILLIAM L., STONER, RICHARD D., and HALE, WILLIAM M.: Correlation of early radiation changes in lymphatic tissues with antitoxin-producing ability (ab), April, 636
- WILLIAMSON, EARLE W. See DeAMICIS, EGILDA
- WILLIS, THAYER. See DAUZIER, GEORGES
- WILLSON, JAMES K. V. See McAFEE, JOHN G.
- WILMS' TUMOR. See Kidneys, tumors
- WILNER, DANIEL. See SHERMAN, ROBERT S.
- WILSON, JOHN K. See MACPHERSON, JOHN
- WILSON, T. G.: Note on congenital laryngeal stridor (ab), April, 601
- WILTSE, LEON L., and FRANTZ, CHARLES H.: Non-suppurative osteitis pubis in the female (ab), April, 613
- WINSTEN, JOSEPH, GOULD, DAVID M., and WARD, GRANT E.: Sialography (ab), Jan., 123
- WINTER, CHESTER C.: A clinical study of a new renal function test: the radioactive Diodrast renogram (ab), June, 903
- WINTROBE, M. M. See BUSH, J. A.
- WISE, BURTON L.: Angiographic demonstration of the primitive trigeminal artery (carotid-basilar anastomosis), May, 731
- WISE, ROBERT E., and O'BRIEN, RICHARD G.: Interpretation of the intravenous cholangiogram (ab), Jan., 135
- JOHNSTON, DAVID O., and SALZMAN, FERDINAND A.: Intravenous cholangiographic diagnosis of partial obstruction of the common bile duct, April, 507
- WISOFF, CARL P., and FELSON, BENJAMIN: A comparative study of the newer contrast media used in cholecystography and cholangiography (ab), May, 774
- WISSLER, H.: Non-specific spondylitis in children (ab), April, 612
- DE WITTE, F.: Osteomyelitis and sarcoma (ab), Jan., 139
- WOHL, GEORGE T.: Vertebral metastasis in renal carcinoma: an anatomic correlation (ab), March, 454
- See GARRITANO, ANTHONY P.
- WOLFF, AAGE. See JENSEN, VIDAR
- WOLMAN, M. See ABRAMOV, A.
- WOODRUFF, J. H., Jr., CHALEK, C. C., OTTOMAN, R. E., and WILK, S. P.: Roentgen diagnosis of renal neoplasms (ab), Feb., 300
- WOODRUFF, P. S.: Mass surveys for tuberculosis (ab), Feb., 282
- WOOLF, WILLIAM E. See JUNIPER, KERRISON, Jr.
- WORDEN, JAMES P. See WEISSMAN, IRVING
- WORINGER, E., LANGS, A., BRAUN, J. P., and BAUMGARTNER, J.: Serial angiographic study of the circulatory dynamics of the brain (ab), May, 756
- WOUNDS
- medical care of wounds contaminated with radioactive materials (ab), Asher J. Finkel and Earl A. Hathaway, March, 476
- WRIGHT, KENNETH A. See HICKS, SAMUEL P.
- WRIST
- fractures of triquetrum (ab), Noel F. Bartone and R. Vincent Grieco, Feb., 297
- WYNN-WILLIAMS, A. See STEWART, A. M.

## X-Y-Z

## XANTHOMA

—radiotherapy of xanthomatous giant-cell tumors (ab), Sven Hulthberg and V. Belloch Zimmermann, June, 909

## XANTHOMATOSIS

—generalized xanthomatosis with calcified adrenals (ab), A. Abramov et al, Jan., 142

YALOW, ROSALYN S., and BERSON, SOLOMON A.: Disulfide reduction and release of iodide 131 following irradiation of  $I^{131}$  labeled proteins, Jan., 100

Some applications of isotope dilution techniques (ab), April, 624

YIANNAKOPOULOS, APOSTOLOS. See WACHSMANN, FELIX

YOUNGBLOOD, VERNON H., WILLIAMS, JEROME O., and TUGGLE, ALLAN: Reactions due to intravenous Urokon (ab), April, 617

YTTRIUM, RADIOACTIVE. See Radioactivity, radioyttrium

YUAN, R. H. P. See SELVERSTONE, B.

ZAINO, COSTANTINO, and POPPEL, MAXWELL H.: Acquired hiatus hernia (ab), March, 451

—See POPPEL, MAXWELL H.

ZARKIN T., MOISÉS. See GARCÍA CASTAÑEDA, MÁXIMO

ZATUCHNI, JACOB. See SOLOFF, LOUIS A.

ZDANSKY, E.: Focal carnyfing necrotizing pneumonia and its differentiation from carcinoma of the bronchus (ab), May, 763

ZEIER, FRANCIS G. See KERNWEIN, GRAHAM A.

ZEITEL, BERTRAM E. See LENTINO, WALTER

ZELIGMAN, ISRAEL. See McMULLAN, FRANCIS H.

ZENDLE, B., KOCH, H. W., McELHINNEY, J., and BOAG, J. W.: Studies of dose distributions in water for betatron x-rays up to 37 Mev (ab), June, 910

ZGODA, ADAM. See ARENDT, JULIAN

ZIEVE, LESLIE, VOGEL, WILLIAM C., and SCHULTZ, ALVIN L.: Determination of protein-bound radioiodine with an anion exchange resin (ab), March, 469

ZIMMER, JAMES F., DAHLIN, DAVID C., PUGH, DAVID G., and CLAGETT, O. THERON: Fibrous dysplasia of bone: analysis of 15 cases of surgically verified costal fibrous dysplasia (ab), Feb., 295

ZIMMERMAN, H. M. See NETSKY, MARTIN G.

ZINN, BERKELEY, and MONROE, JAMES: The lordotic position in fluoroscopy and roentgenography of the chest (ab), Feb., 280

ZION, M. M.: Mitral stenosis associated with anomalous pulmonary venous drainage into a left superior vena cava (ab), March, 441

ZIRCONIUM

—study of effects on lung of industrial exposure to zirconium dusts (ab), C. E. Reed, May, 764

ZSEBOK, Z. See GERGELY, R.

ZUCHERMAN, SIDNEY D. See JACOBSON, GEORGE

7

at:

ss

be

I-

a-

a-

y,

at

en

A.

ji-

li-

il,

N,

ad

on

m

e-

O

ts

y.

G,

on

Z,

ne

r,

e:

s-

si-

),

al-

va

m